JVC

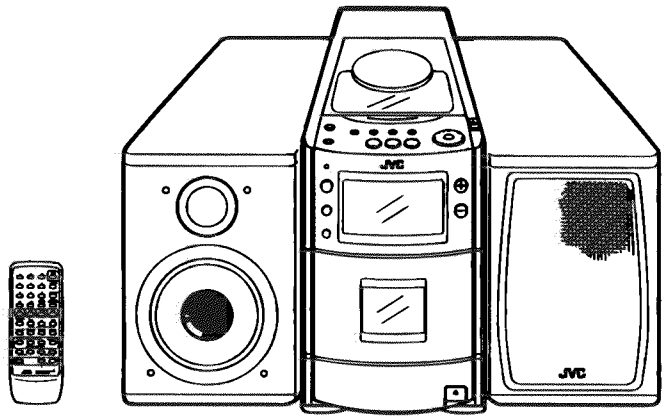
SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX-T300R

Area Sufix

B ---------- the U.K.
E ---------- Continental Europe
EN ---------- NothernEurope



R·D·S EON

COMPACT disc DIGITAL AUDIO

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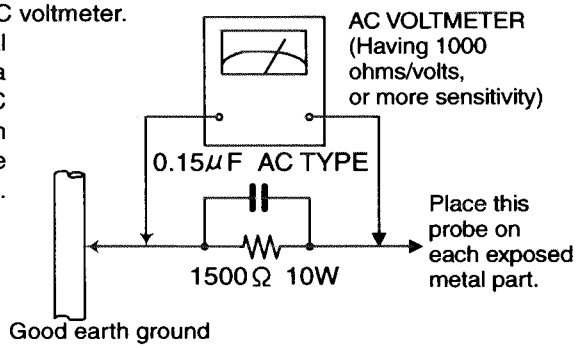
No.20678
Apr. 1998

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to eachexposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

Important for Laser Products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

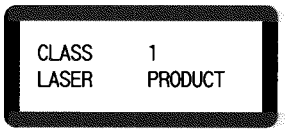
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

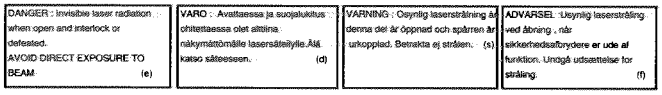
ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

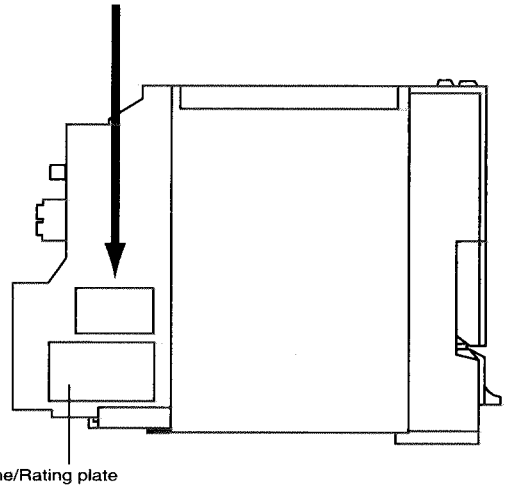
ADVARSEL : Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL




DANGER : Invisible laser radiation when open and interlock or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen. (d)
VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)
ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)

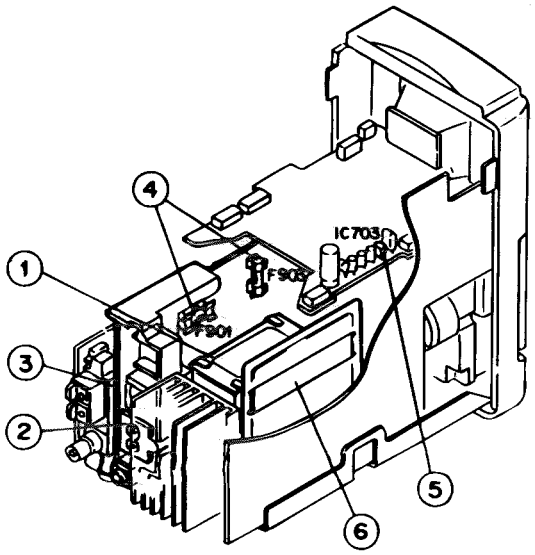


■ Important management points regarding safety
(Item demanding special safety precautions)

1. Power transformer marking : QQT0199-002
   The torque of the screw driver for the power transformer must controlled.
2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.
   The AC socket must not float from print circuit board.
   • Marking HJC-027
3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.
4. **Before installation confirm the fuse capacity indication, (Ⓢ) and (Ⓢ) marks on the fuse holder.**

REF.NO	Capacity and mark	Indication on P.C. board
F901	T500mA	T500mA
F903	T6.3A	T6.3A

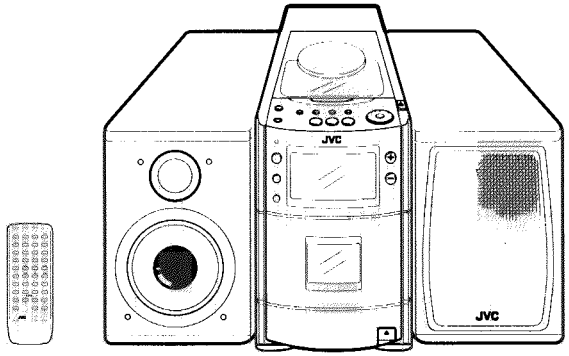
5. Following parts are controlled as the heated parts. Confirm the flammable parts are lifted-up, the parts in ( ) must be control.
   • IC : IC31 (IC703), Transistor : Q9001, Q9201, Q303, Q304, Q305, Resistor : R9009, R9010, R9011, R9021, R310, R311, R9102, Diode : D901, D902, D903, D904, D7011 Radiation
6. The barrier must be attached on the shield of tighten with the transformer.
7. Confirm following EMC (Electromagnetic compatibility) control matter.
   Control parts, and Control work (Symbol number)
   TU1, CF1, CF2, L1, L11, C8 (Tuner board), C901, C902, C903, C904, L901 (Main board)



JVC

MICRO COMPONENT SYSTEM
MIKRO-KOMPONENTEN-SYSTEM
MICRO CHAINE
MIKRO KOMPONENTENSYSTEEM
SISTEMA DE MICROCOMPONENTES
SISTEMA A MICROCOMPONENTI

UX-T300R



R·D·S EON

COMPACT disc DIGITAL AUDIO

INSTRUCTIONS
BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI

For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.

Serial No.

LVT0027-005A
[E]

Warnings, Cautions and Others / Warnung, Achtung und sonstige Hinweise /Mises en garde, précautions et indications diverses /Waarschuwingen, voorzorgen en andere medeelingen/Avisos, precauciones y otras notas / Avvertenze e precauzioni da osservare

Caution — ⏻/I switch!
Disconnect the mains plug to shut the power off completely. The ⏻/I switch in any position does not disconnect the mains line. The power can be remote controlled.

Achtung — ⏻/I Schalter!
Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der Schalter ⏻/I unterbrichet in keiner Stellung die Stromversorgung vollkommen. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

Attention — Commutateur ⏻/I !
Déconnecter la fiche de secteur pour couper compltement le courant. Le commutateur ⏻/I ne coupe jamais compltement la ligne de secteur, quelle que soit sa position. Le courant peut tre télécommandé.

Voorzichtig — ⏻/I schakelaar!
Om de stroomtoevoer geheel uit te schakelen, trekt u de stekker uit het stopkontakt. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de ⏻/I schakelaar. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

Precaución — Interruptor ⏻/I!
Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del interruptor ⏻/I, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

Attenzione — L'interruttore ⏻/I !
Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore ⏻/I in nessuna posizione stacca la linea di alimentazione elettrica principale. È possibile il controllo remoto dell'alimentazione.

Per l'Italia:
"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ACHTUNG
Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw:
1. Keine Schrauben lösen oder Abdeckungen entfernen und das Gehäuse nicht öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

VOORZICHTIG
Ter vermindering van gevaar voor brand, elektrische schokken, enz.:
1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel het toestel niet bloot aan regen of vocht.

PRECAUCIÓN
Para reducir riesgos de choques eléctricos, incendio, etc.:
1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

ATTENZIONE
Per ridurre il rischio di shock elettrici, incendi, ecc...
1. Non togliete viti, coperchi o la scatola.
2. Non esponete l'apparecchio alla piogggia e all'umidità.

Caution: Proper Ventilation
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
1 Front:
No obstructions and open spacing.
2 Sides/ Top/ Back:
No obstructions should be placed in the areas shown by the dimensions below.
3 Bottom:
Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

Vorsicht: Ausreichende Belüftung
Zur Vermeidung von elektrischen Schlägen, Feuer und sonstigen Schäden sollte das Gerät unter folgenden Bedingungen aufgestellt werden:
1 Vorderseite:
Hindernisfrei und gut zugänglich.
2 Seiten- und Rückwände:
Hindernisfrei in allen gegebenen Abständen (s. Abbildung).
3 Unterseite:
Die Stellfläche muß absolut eben sein. Sorgen Sie für ausreichende Luftzufuhr durch Aufstellung auf einem Stand mit mindestens 10 cm Höhe.

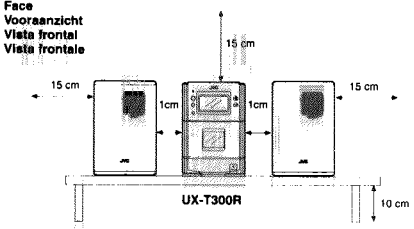
Attention: Aération correcte
Pour prévenir tout risque de décharge électrique ou d'incendie et éviter toute détérioration, installez l'appareil de la manière suivante:
1 Avant:
Bien dégagé de tout objet.
2 Côtés/dessus/dessous:
Assurez-vous que rien ne bloque les espaces indiqués sur le schéma ci-dessous.
3 Dessous:
Posez l'appareil sur une surface plane et horizontale. Veillez à ce que sa ventilation correcte puisse se faire en le plaçant sur un support d'au moins dix centimètres de hauteur.

Voorzichtig: Goede ventilatie vereist
Om brand, elektrische schokken en beschadiging te voorkomen, moet u het toestel als volgt opstellen:
1 Voorkant:
Geen belemmeringen en voldoende ruimte.
2 Zijkanten/boven-/onderkant:
Geen belemmeringen plaatsen in de hieronder aangegeven zones.
3 Onderkant:
Op vlakke ondergrond plaatsen. Voldoende ventilatieruimte voorzien door het toestel op een onderstel met een hoogte van 10 cm of meer te plaatsen.

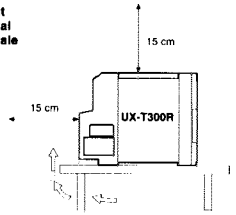
Precaucion: ventilación correcta
Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:
1 Parte frontal:
Sin obstrucciones, espacio abierto.
2 Lados/parte superior/parte posterior:
No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
3 Parte inferior:
Sitúe el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, situando el equipo sobre un soporte de 10 o más cm de allura.

Attenzione: Per una corretta ventilazione
Per prevenire il rischio di scosse elettriche e di incendio ed evitare possibili danni, collocare le apparecchiature nel modo seguente:
1 Parte anteriore:
Nessun ostacolo e spazio libero.
2 Lati/Parte superiore/Retro:
Lasciare libere le zone indicate dalle dimensioni di seguito.
3 Base:
Collocare su una superficie piana. Consentire un'adeguata ventilazione dell'impianto appoggiandolo su un tavolinetto alto almeno 10 cm.

Front view
Vorderansicht
Face
Vooraanzicht
Vista frontal
Vista frontale



Side view
Seitenansicht
Côt
Zijaanzicht
Vista lateral
Vista laterale



IMPORTANT FOR LASER PRODUCTS/ WICHTIGER HINWEIS FÜR LASER-PRODUKTE / IMPORTANT POUR LES PRODUITS LASER / BELANGRIJKE INFORMATIE VOOR LASERPRODUKTEN / IMPORTANTE PARA LOS PRODUCTOS LÁSER / IMPORTANTE PER I PRODOTTI LASER

REPRODUCTION OF LABELS/ANBRINGUNGSORTE FÜR LASER-PRODUKTE/REPRODUCTION DES ETIQUETTES/VERKLARING VAN DE LABELS/REPRODUCCIÓN DE ETIQUETAS/RIPRODUZIONE DELLE ETICHETTE

1 CLASSIFICATION LABEL, PLACED ON EXTERIOR SURFACE

1 KLASSIFIZIERUNGSHINWEIS BEFINDET SICH AUF DER AUSSENSIETE

1 ÉTIQUETTE DE CLASSIFICATION, PLACÉE SUR LA SURFACE EXTÉRIEURE

1 CLASSIFICATIE-ETIKET AAN DE BUITENKANT VAN HET APPARAAT

1 ETIQUETA DE CLASIFICACION, PROVISTA SOBRE LA SUPERFICIE EXTERIOR

1 ETICHETTA DI CLASSIFICAZIONE POSTA ALL'ESTERNO

2 WARNING LABEL, PLACED INSIDE THE UNIT

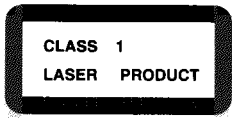
2 WARNETIKETTE IM GERÄTEINNEREN

2 ETIQUETTE D'AVERTISSEMENT PLACÉE À L'INTERIEUR DE L'APPAREIL

2 WAARSCHUWINGSLABEL, IN HET APPARAAT

2 ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD

2 ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO DELL'APPARECCHIO



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM (e)
VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen (s)
ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)
VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen (f)

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

1. LASER-PRODUKT DER KLASSE 1
2. **GEFAHR:** Unsichtbare Laserstrahlung bei Öffnung und fehlerhafter oder beschädigter Spre. Direkten Kontakt mit dem Strahl vermeiden!
3. **ACHTUNG:** Das Gehäuse nicht öffnen. Das Gerät enthält keinerlei Teile, die vom Benutzer gewartet werden können. Überlassen Sie Wartungsarbeiten bitte qualifizierten Kundendienst-Fachleuten.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser invisible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

1. KLAS 1 LASERPRODUKT
2. **GEVAARLIJK:** Onzichtbare laserstraling wanneer open en de beveiliging faalt of uitgeschakeld is. Voorkom het direkt blootstaan aan de straal.
3. **VOORZICHTIG:** De bovenkap niet openen. Binnenin het toestel bevinden zich geen door de gebruiker te repareren onderdelen: laat onderhoud over aan bekwaam vakpersoneel.

1. PRODUCTO LASER CLASE 1
2. **PELIGRO:** En el interior hay radiación láser invisible. Evite el contacto directo con el haz.
3. **PRECAUCIÓN:** No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.

1. PRODOTTO LASER CLASSE 1
2. **PERICOLO:** Radiazione laser invisibile quando l'apparecchio è aperto ed il dispositivo di sicurezza è guasto o disattivato. Evitare l'esposizione diretta ai raggi.
3. **ATTENZIONE:** Non aprire il coperchio superiore. Non vi sono parti adoperabili dall'utente all'interno di questo apparecchio; lasciare tutti i controlli a personale qualificato.

Thank you for purchasing the JVC Micro Component System.
We hope it will be a valued addition to your home, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
In it you will find all the information you need to set up and use the system.
If you have a query that is not answered by the manual, please contact your dealer.

Features

Here are some of the things that make your System both powerful and simple to use.

- The controls and operations have been redesigned to make them very easy to use, freeing you to just enjoy the music.
  - With JVC's **COMPU PLAY** you can turn on the System and automatically start the Radio, Cassette Deck or CD Player with a single touch.
- The System incorporates Active Hyper-Bass PRO circuitry to faithfully reproduce low frequency sounds.
- A 45-station preset capability (30 FM and 15AM (MW/LW)) in addition to auto-seek and manual tuning.
- Versatile CD options include repeat, random and program play.
- Auto-reverse tape function.
  - A user-friendly timer lets you record broadcasts while you are out, and wake or fall asleep to music.
- The System is compatible with RDS (Radio Data System) broadcasting.
  - The EON data enables you to standby for desired information.
  - The PTY Search function searches for programmes in the category you wish.

  In addition, Radio Text can be displayed using data sent by station.

How This Manual Is Organized

- Basic information that is the same for many different functions – e.g. setting the volume – is given in the section 'Common Operations', and not repeated under each function.
- The names of buttons/controls and display messages are written in all capital letters: e.g. TUNER BAND, "NO DISC".
- System functions are written with an initial capital letter only: e.g. Normal Play.

Use the table of contents to look up specific information you require.
We've enjoyed making this manual for you, and hope it serves you in enjoying the many features built into your System.

IMPORTANT CAUTIONS

1 Installation of the Unit

- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F.)
- Leave sufficient distance between the Unit and a TV.
- Do not use the Unit in a place subject to vibrations.

2 Power cord

- Do not handle the power cord with wet hands!
- Some power (2.9W) is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the Unit from the wall outlet, always pull the plug, not the power cord.

3 Malfunctions, etc.

- There are no user serviceable parts inside. In case of system failure, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the Unit.

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English English

Getting Started

Accessories

Check that you have all of the following items, which are supplied with the System.

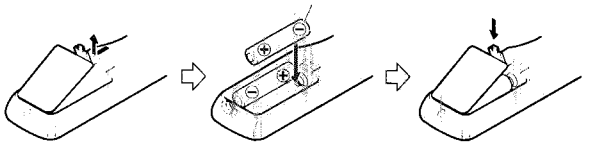
Power Cord (1)
AM Loop Antenna (1)
Remote Control (1)
Batteries (2)
FM Wire Antenna (1)

If any of these items are missing, contact your dealer immediately.

How To Put Batteries In the Remote Control

Match the polarity (+ and –) on the batteries with the + and – markings in the battery compartment.

R6P(SUM-3)/AA(15F)

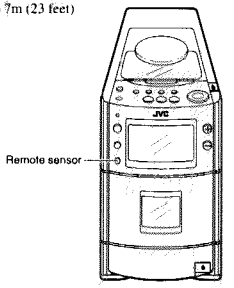


CAUTION: Handle batteries properly.
To avoid battery leakage or explosion:

- Remove batteries when the Remote Control will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery with a new one.
- Don't use different types of batteries together.

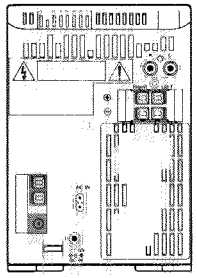
Using the Remote Control

The Remote Control makes it easy to use many of the functions of the System from a distance of up to 7m (23 feet) away.
You need to point the Remote Control at the remote sensor on the System's front panel.

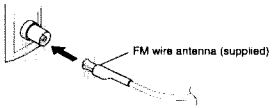


CAUTION: Make all connections before plugging the Unit into an AC power outlet.

Connecting the FM Antenna

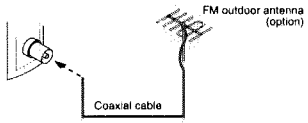


Using the Supplied Wire Antenna



Using an FM 75-Ohm Antenna Wire (Not Supplied)

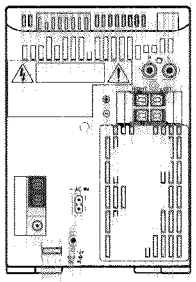
If reception is poor, connect the outside antenna.



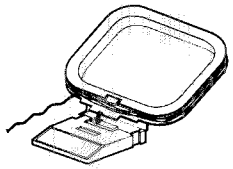
Note: Before attaching a 75 ohm coaxial lead (the kind with a round wire going to an outside antenna), disconnect the supplied FM Wire Antenna.

CAUTION: To avoid noise, keep antennas away from metallic parts of the System, the connecting cord and the AC power cord.

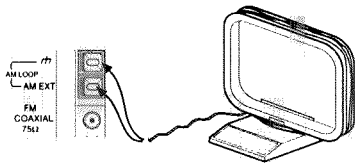
Connecting the AM (MW/LW) Antenna



AM loop antenna (Supplied)



Attach the AM loop to its base by snapping the tabs on the loop into the slot in the base.



Turn the loop until you have the best reception.

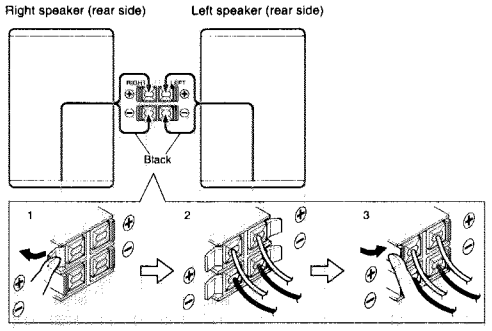
English

CAUTION: Make all connections before plugging the Unit into an AC power outlet.

Connecting the Speakers

For each speaker, connect one end of the speaker wire to the speaker terminals on the back of the System.

1. Open each of the terminals and insert the speaker wires firmly, then close the terminals.
2. Connect the red (+) and black (–) wires of the right side speaker to the red (+) and black (–) terminals marked RIGHT on the System.
   Connect the red (+) and black (–) wires of the left side speaker to the red (+) and black (–) terminals marked LEFT on the System.

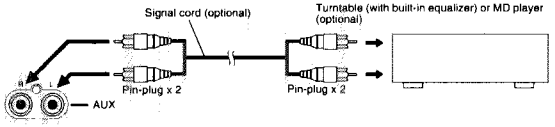


CAUTION: A TV may display irregular colors if located near the speakers. If this happens, set the speakers away from the TV.

Connecting Auxiliary Equipment

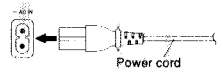
Turntable (or MD player)

To listen to this source, press the AUX button.



Connecting the AC Power Cord

Firmly insert the supplied AC power cord into the AC inlet on the back of the System.



CAUTIONS:

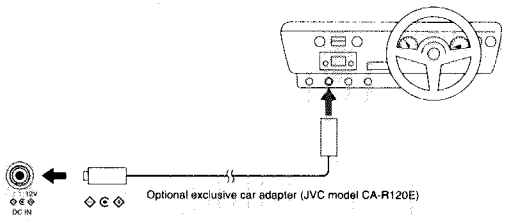
- **ONLY USE THE JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT.**
- **BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.**

Now you can plug the AC power cord into the wall outlet, and your System is at your command!

Operating via your Car Battery (DC12V)

You can operate the System on your car battery via the optional car adaptor (JVC model CA-R120E).
You must connect the adaptor to the System in the following order to avoid accidental short circuit:

1. Be sure that the AC power cord is disconnected.
2. First, connect the car adaptor plug to the DC IN 12V jack on the back of the System.
3. Next, connect the DC inlet of the car adaptor to your car's cigarette lighter socket (DC12V).



CAUTIONS:

- **Use only the specified car adaptor (JVC model CA-R120E) to avoid damage to the System.**
- **For safety, do not drive your car while listening to the System with headphones.**

COMPU PLAY

JVC's COMPU PLAY feature lets you control the most frequently used System functions with a single touch.
With One Touch Operation you can play a CD or tape, turn on the radio etc. with a single press of the play button for that function. One Touch Operation turns the power on for you, then starts the function you have specified. If the Unit is not ready, such as no CD or tape in place, the Unit still powers on so you can insert a CD or tape.
How One Touch Operation works in each case is explained in the section dealing with that function.
The COMPU PLAY buttons are:

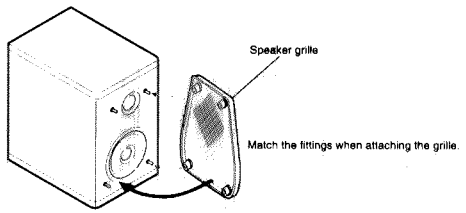
On the Unit and on the Remote Control

CD ▷/II button (CD ►/II button)
TUNER/BAND button
TAPE ◄► button
AUX button

Removing the speaker grilles

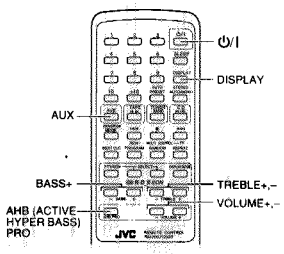
- The speaker grilles can be removed.
- When removing,
  1. Insert your fingers at the top and pull towards you.
  2. Also pull the bottom towards you.

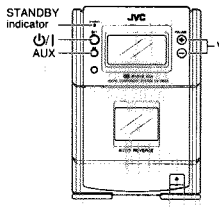
Attaching the speaker grille

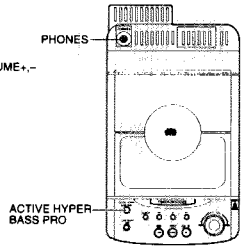


English English

Common Operations







Turning the Power On and Off

Turning the System On

Press the ⏻/I button.
The display comes on and the STANDBY indicator goes out.
The System comes on ready to continue in the mode it was in when the power was last turned off.

- For example, if the last thing you were doing was listening to a tape, you are now ready to listen to a tape again. If you wish, you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

Turning the System Off

Press the ⏻/I button again.
The STANDBY indicator lights up and the display is blank, except for the clock display.

- Some power (2.9W) is always consumed even though power is turned off (called Standby Mode).
- To switch off the Unit completely, unplug the AC power cord from the AC outlet (or, if using a car adaptor, unplug that from the unit). When you unplug the AC power cord, the clock will be reset to 0:00 immediately, and preset Tuner stations will be erased after about 24 hours.

Adjusting the Volume

Press the VOLUME + button to increase the volume or press the VOLUME – button to decrease it.
You can adjust the volume level between 0 and 50.

VOLUME 0

CAUTION:
The Volume cannot be adjusted while the Unit is in Standby mode. DO NOT turn on the Unit and/or start playing any source without first setting the VOLUME control to 0, as a sudden blast of sound can damage your hearing, speakers and/or headphones.

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers.
Be sure to turn down the volume before connecting or putting on headphones.

Reinforcing the Bass Sound

You can reinforce the bass sound to maintain rich, full bass at low volume (you can use this effect only for playback):
To get the effect, press the ACTIVE HYPER BASS PRO button.
The "BASS" indicator lights up on the display.
To cancel the effect, press the button again.
The "BASS" indicator goes out.

Tone Control

You can control the tone by changing the bass and treble.

BASS control

You can adjust the bass level (low frequency range level) between –6 and 6. (0: Flat)
To emphasize the bass level, press the BASS+ button on the Remote Control.
To lower the bass level, press the BASS– button on the Remote Control.

BASS 0

TREBLE Control

You can adjust the treble level (high frequency range level) between -6 and 6. (0: Flat)

To emphasize the treble level, press the TREBLE+ button on the Remote Control.

To lower the treble level, press the TREBLE- button on the Remote Control.

TREBLE 0

Listening to Auxiliary Equipment

You can control the sound from auxiliary equipment played through the System, by applying the sound effects mentioned above.

■ First make sure that the auxiliary equipment is properly connected to the System. (See page 4).

1. Set the VOLUME control to 0.

2. Press the AUX button.

When the System is in Standby mode, the Unit is automatically turned on and "AUX" appears on the display.

AUX

3. Start playing the auxiliary equipment.

4. Adjust the VOLUME control to the desired listening level.

5. Apply sound effects, if you wish.

To cancel Auxiliary mode

You will automatically switch out of auxiliary mode when you start one of the System's built-in sound sources, such as the Tuner or CD Player.

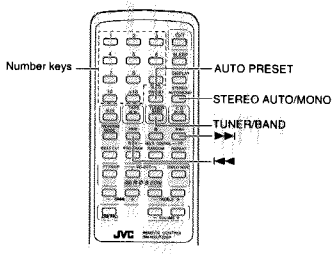
Showing the Time

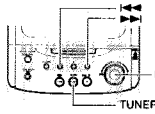
To show the current time on the display, press the DISPLAY button on the Remote Control.

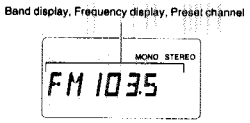
12:00

Note: You need to set the clock beforehand. (See "Setting the Clock" on page 16)

Using the Tuner







When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.

You can listen to FM and AM(MW/LW) stations. Stations can be tuned in manually, automatically, or from preset memory storage.

■ Before listening to the radio:

- Check that both the FM and AM(MW/LW) antennas are correctly connected. (See page 3).

One Touch Radio

Just press the TUNER/BAND button to turn on the Unit and start playing the station you were last tuned to.

■ You can switch from any other sound source to the radio by pressing the TUNER/BAND button.

English

Tuning In a Station

Press the TUNER/BAND button to turn on the radio.
The Band and Frequency you were last tuned to appear on the display.

Switching Frequency Bands

Press the TUNER/BAND button.

Each time you press the button, the band alternates between FM and AM (MW/LW).

Three ways to Select a Station

■ Press the |◀◀ or ▶▶| button repeatedly to move from frequency to frequency until you find the station you want. (Manual Tuning).

OR

■ If you press and hold the |◀◀ or ▶▶| button for one second or more, the frequency changes down, or up, automatically until a station is found. (Auto Tuning).

OR

■ Possible only after presetting stations (Preset Tuning). Turn the MULTI JOG dial to the left or right to go to the next preset station.

You can also use the Remote Control to tune in to preset channels:

Select the station by entering its preset number on the number keys of the Remote Control.

- Example: for channel 5, press 5. For channel 15, press +10 then 5.

P-15

- After you have selected the preset number, the channel is displayed with its broadcast frequency.

Presetting Stations

You can preset up to 30 FM stations and up to 15 AM (MW/LW) stations using the Remote Control.

Note: Preset numbers may have been set to factory test frequencies prior to shipment. This is not a malfunction. You can preset the stations you want into memory by following one of the presetting methods below.

Manual Presetting

1. Select a band by pressing the TUNER/BAND button.

2. Press the |◀◀ or ▶▶| button to tune in a station.

3. Set the preset number by pressing and holding the number keys on the Remote Control.

- For preset numbers 1 to 10:
  Press the number key for the preset number you want to set for more than two seconds.
- For preset numbers 11 to 15:
  Press the 1 to 5 buttons for more than two seconds after pressing the +10 button.
- The preset number appears in the display when you press the number keys. When the key is held down for more than two seconds, the preset number display blinks, indicating it has been set to the new frequency. You can then release the key. This completes the preset setting.

4. Repeat steps 1 - 3 for each station you want to store in memory with a preset number.

Auto Presetting

In each band, you can automatically preset FM-30, AM (MW/LW)-15 stations. Preset numbers will be allocated as stations are found, starting from the lowest frequency and moving up the frequency.

1. Select a band by pressing the TUNER/BAND button.

2. Press the AUTO PRESET button on the Remote Control for more than two seconds.

3. Repeat steps 1-2 for the other band.

CAUTION: If the Unit is unplugged or if a power failure occurs, the preset stations will be erased after about 24 hours. If this happens, you will need to preset the stations again.

To Change the FM Reception Mode

When an FM stereo broadcast is hard to receive or noisy, press the STEREO AUTO/MONO button on the Remote Control so that the "MONO" indicator lights up in the display. Reception improves, but you lose any stereo effect.

To restore the stereo effect, press the STEREO AUTO/MONO button on the Remote Control so that the "MONO" indicator goes off. The "STEREO" indicator lights up and you can hear stereo effects, when a program is broadcast in stereo.

Receiving FM Stations with RDS

(Using the Remote Control)

Using the RDS (Radio Data System) to Receive FM Stations

RDS allows FM stations to send additional signals with their regular programme signals. For example, the stations send their station names, and information about what type of programmes they broadcast, such as sports or music, etc. This unit can receive the following types of RDS signals:

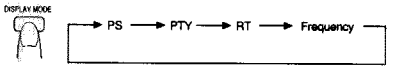
PS (Programme Service):
shows commonly known station names.
PTY (Programme Type):
shows types of broadcast programmes.
RT (Radio Text):
shows text messages the station sends.
TA (Traffic Announcement):
shows traffic announcements being broadcast.

What information can RDS signals provide?

The display shows RDS signal information that the station sends.

To show the RDS signals on the display:

Press the DISPLAY MODE button while listening to an FM station. Each time you press the button, the display changes to show information in the following order:

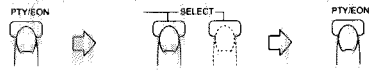


PS (Programme Service):
While searching, "PS" appears, then station name is displayed. "NO PS" appears if no signal is sent.
PTY (Programme Type):
While searching, "PTY" appears, then broadcast programme type is displayed. "NO PTY" appears if no signal is sent.
RT (Radio Text):
While searching, "RT" appears, then a text message sent by the station is displayed. "NO RT" appears if no signal is sent.
Station Frequency:
Station frequency (non-RDS service)

Notes:
- If searching finishes at once, "PS", "PTY" and "RT" will not appear on the display.
- If you press the DISPLAY MODE button while listening to an AM (MW/LW) station, the display only shows station frequency.
- RDS is not available for AM (MW/LW) broadcasts.

On characters displayed
When the display shows PS, PTY or RT signals:
- The display shows upper case letters only.
- The display cannot show accented letters; For example, "A" may represent accented "A's" like "Á, À, Â, À, Ä and Å".

To search for a programme by PTY codes
One of the advantages of the RDS service is that you can locate a particular kind of programme by specifying the PTY codes.
To search for a programme using PTY or TA codes:



1 **Press the PTY button once while listening to an FM station.**
The display alternates between "PTY" and "SELECT".
2 **Select the PTY code using the SELECT buttons within 10 seconds.**
Each time you press the button, the display shows a category in the following order:

NEWS ↔ AFFAIRS ↔ INFO ↔ SPORT ↔ EDUCATE ↔ DRAMA ↔ CULTURE ↔ SCIENCE ↔ VARIED ↔ POP M ↔ ROCK M ↔ M.O.R.M ↔ LIGHT M ↔ CLASSICS ↔ OTHER M ↔ TRAFFIC ↔ NEWS

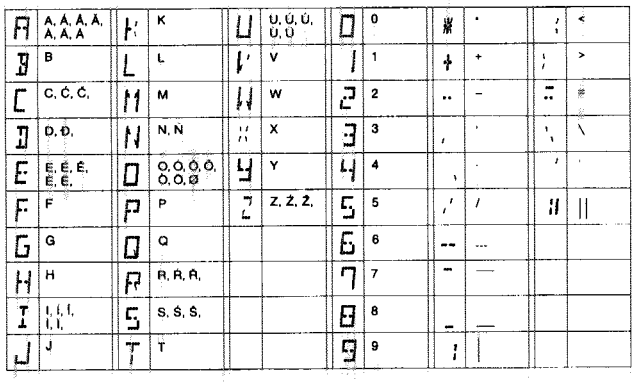
3 **Press the PTY button within 10 seconds again.**
While searching, the display alternates between "SEARCH" and the selected PTY code.
The unit searched 30 preset stations and stops when it finds a station of the category you have selected, then tunes into that station.

To continue searching after the first stop,
press the PTY button again while the display indications blink.
If no programme is found, "NOT FOUND" appears on the display.

To stop searching at any time during the process
Using any tuner operating buttons and controls stops search operation.
Descriptions of the PTY Codes
NEWS: News
AFFAIRS: Topical programme expanding on the current news or affairs
INFO: Programmes on medical service, weather forecasts, etc.
SPORT: Sports events
EDUCATE: Educational programmes
DRAMA: Radio plays
CULTURE: Programmes on national or regional culture
SCIENCE: Programmes on natural sciences and technology
VARIED: Other programmes like comedies or ceremonies
POP M: Pop music
ROCK M: Rock music
M.O.R.M: Middle-of-the-road music (usually called "easy listening")
LIGHT M: Light music
CLASSICS: Classical music
OTHER M: Other music
ALARM: Emergency broadcasts
TRAFFIC: Broadcasts which carry traffic announcements
NONE: Undefined (this cannot be searched.)

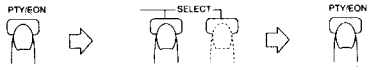
To temporarily switch to a broadcast programme of your choice
EON (Enhanced Other Networks) is another convenient RDS service that allows this unit to switch temporarily to a broadcast programme of your choice (NEWS, TA or INFO) from the currently selected station, except if you are listening to a non-RDS station (all AM (MW/LW) stations or some FM stations).

- If an FM station does broadcast EON information, EON cannot be activated.



English

To select a programme type



1 **Press the EON button twice while listening to an FM station.**
The display alternates between "EON" and "SELECT".
2 **Select the programme type with the SELECT buttons within 10 seconds.**
The display shows a programme type in the following order:

TA: Traffic Announcement
NEWS: News
INFO: Programmes on medical service, weather forecast, etc.
OFF: EON off
3 **Press the EON button within 10 seconds again to set the selected programme type.**
The selected programme type indicator lights up on the display, and the unit enters EON Standby mode.

- The EON indicator lights up when tuned to a station which provides EON information.

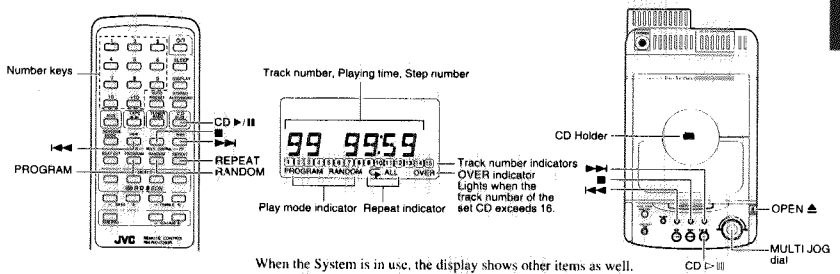
Case 1: If there is no station broadcasting the type of programme you have selected
The broadcast station being currently heard will continue to be heard.
⬇
When a station starts broadcasting the programme you have selected, this unit automatically switches to the station. The programme type (TA, NEWS or INFO) indicator starts blinking.
⬇
When the programme is over, this unit goes back to the currently selected station, but still remains in EON Standby mode.

Case 2: If there is a station broadcasting the type of programme you have selected
This unit tunes to the station broadcasting the programme. The programme type (TA, NEWS or INFO) indicator starts blinking.
⬇
When the programme is over, this unit goes back to the currently selected station, but still remains in EON Standby mode.

Notes:
- If the EON is in standby mode and the function (CD, TAPE, AUX) switch is changed or the power is switched off, then the EON mode will be released. When the band is set to AM (MW/LW), the EON is not activated. When the band is set to FM again, the EON will be set to standby mode.
- When the EON is being operated (i.e. the selected programme type is being received from the broadcast station) and if the DISPLAY MODE, ⏮, ⏭ button or MULTI JOG dial is operated, the station will not switch back to the current selected station even after the programme ends. The programme type indicator remains in the display, indicating that the EON is in standby mode.
- When the EON is in standby mode and a radio broadcast is being recorded, be careful because the EON may be activated and a different programme than the intended one may be recorded. When the EON mode is not required, release the EON mode.
- When the alarm signal is detected by EON, the station broadcasting the alarm is received with priority. "ALARM" is not displayed.

Caution:
When the sound alternated intermittently between the station tuned in by the EON function and the current selected station, cancel the EON mode. This does not constitute malfunction of the unit.

Using the CD Player



When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.

You can use Normal, Random, Program or Repeat Play. Repeat Play can repeat all the tracks or just one of the tracks on the CD.

Here are the basic things you need to know to play a CD and locate the different tracks on it.

The Quickest Way To Start a CD Is With the One Touch Operation

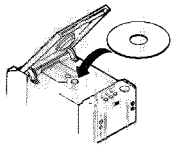
■ Press the CD ▷/II button (or the CD ▶/II button on the Remote Control).
- The power is automatically turned on. If a CD is already inserted, it will start playing from the first track.
- If no CD is inserted, "NO DISC" appears on the display and the CD Player remains in stop mode.

To Insert a CD

1 Press the OPEN ▲ button to open the CD holder.

The CD holder opens.

2 Place a CD, with its label side up as shown below.



3 Gently close the CD holder by hand.

■ You can place an 8 cm (3") CD without an adaptor.
■ If the CD cannot be read correctly (because it is scratched, for example), "00 0000" appears on the display.

Basics of Using the CD Player — Normal Play

To Play a CD

1 Insert a CD.

2 Press the CD ▷/II (or the CD ▶/II button on the Remote Control).

The first track of the CD will begin playing.
The CD Player automatically stops when the last track of the CD has finished playing.

To stop playing the CD, press the ⊖ button on the Unit or the Remote Control.
To stop playing and remove the CD, press the OPEN ▲ button to open the CD holder.
To pause, press CD ▷/II button (or the CD ▶/II on the Remote Control). The playing time display will blink.
To cancel pause, press the CD ▷/II button again (or press the CD ▶/II button on the Remote Control). Play continues from the point where it was paused.

To Select a Track or Passage within a Track

During playback, press the ⏮ or ⏭ button on the Unit or the Remote Control to select the track you want.
The selected track starts playing.
Each time you press the ⏮ or ⏭ button, the track changes by one.
- Press and release the ⏭ button to go forward one track at a time.
- Press and release the ⏮ button to go back one track at a time.

Selecting a Track Using the MULTI JOG dial

Instead of pressing the ⏮ or ⏭, you can select a track by turning the MULTI JOG dial to the left or the right.

Search Play

Holding down the ⏮ or ⏭ button on the Unit or the Remote Control, during playback, will fast forward/backwards the CD so you can quickly find a particular passage in the track you are listening to.

English

Locating a Track with the Remote Control Directly

Using the number keys on the Remote Control allows you to go directly to the beginning of any track.

During playback, enter the number of the track you want to listen to using the number keys.
The selected track starts playing.
- Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

Programming the Playing Order of the Tracks

You can program the playing order of the tracks using the Remote Control.
■ You can program up to 20 tracks in any desired order.
■ You can only make a program when the CD Player is stopped.

1 Insert a CD.

2 Press the CD ▶/II button.

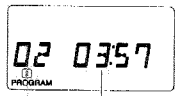
3 Press the ⊖ button to stop the CD.

4 Press the PROGRAM button.

The Unit enters the programming mode and the "PROGRAM" indicator lights up.

5 Press the number keys (1 to 10 and +10) to select the track to program.

- Example: for track 2, press 2. For track 15, press +10 then 5. For track 20, press +10 then 10.



The total playback time of programmed tracks

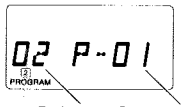
6 Repeat step 5 to select the other tracks for the program.

You can see the total playback time of programmed tracks in the display.

7 Press the CD ▶/II button.

The Unit plays the tracks in the order you have programmed them.
■ You can skip to a particular program track by pressing the ⏮ or ⏭ button during program play.

To confirm the programmed tracks, Press the PROGRAM button; the tracks making up the program will be displayed in programmed order.



Track number Program order number

To stop playing, press the ⊖ button once.
To delete all the tracks in a program, press the ⊖ button on the Unit or the Remote Control while the CD Player is stopped. The "PROGRAM" indicator goes out and the program is deleted. Normal Play is resumed.
The program will also be deleted when you press the OPEN ▲ button to open the CD holder.

Note: If the total playback time of the programmed tracks exceeds 99 minutes 59 seconds, or if more than 21 tracks are programmed, the total playback time will go out on the display.

Random Play

The tracks will play in no special order when you use this mode.

Press the RANDOM button on the Remote Control.

Playback automatically starts and the "RANDOM" indicator lights up on the display.
To skip a track during playback, press the ⏭ button to jump to the next track in the random sequence. Press the ⏮ button to jump back to the start of a track being played.
To cancel random play, press the RANDOM button again. The "RANDOM" indicator goes out and Normal Play is resumed.

Repeating Tracks

You can set the program or individual track playing to repeat as many times as you like.

Press the REPEAT button on the Remote Control.

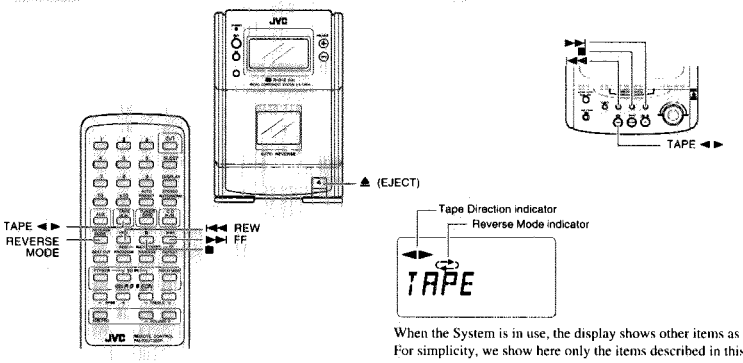
The display changes with each press of the button, as shown below.

→ ⊂ → ⊂ **ALL** → blank display → (back to the beginning)

⊂ : Repeats one track.
⊂ **ALL** : In Normal Play mode, repeats all the tracks.
In Program Play mode, repeats all the tracks in the program.

To exit Repeat Mode, press the REPEAT button until the "REPEAT" mode indicator on the display goes out.

Using the Cassette Deck (Listening to a Tape)



When the System is in use, the display shows other items as well.
For simplicity, we show here only the items described in this section.

The Cassette Deck allows you to play and record audio tapes.

- With Automatic Tape Detection, you can listen to type I, II or IV tapes without having to change any settings.

The use of tapes longer than 120 minutes is not recommended, since characteristic deterioration may occur and these tapes easily jam in the pinch-rollers and the capstans.

One Touch Play

By pressing the TAPE ◄► button on the Unit or the Remote Control, the Unit will come on, "TAPE" appears in the display, and if a tape is in the deck, it will start to play. If no tape is loaded, the Unit will come on and wait for you to insert a tape, or select another function.

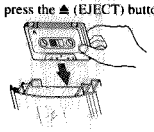
Regular Play

When the power is already on, you can use this basic procedure:

1 Press the ▲ (EJECT) button.

2 When the cassette holder opens, put the cassette in, with the exposed part of the tape down, toward the base of the System.

- If the cassette holder does not open, turn the Unit off, then back on and press the ▲ (EJECT) button again.



3 Close the holder gently until it clicks.

4 Press the TAPE ◄► button.

The tape is played in the direction shown by the Tape Direction indicator.

5 If you need to change the playback direction, press the TAPE ◄► again.

The opposite side Tape Direction indicator lights up and the tape playback direction changes.

To stop playing, press the ∈ button.

To remove the tape, stop the tape, and press the ▲ (EJECT) button.

To Fast-Forward And Rewind A Tape

- Press the ►►I (fast-forward) button on the Unit or the Remote Control to fast-forward the tape.
- Press the I◄◄ (rewind) button on the Unit or the Remote Control to rewind the tape.
  - The Cassette Deck automatically stops when the tape reaches its end.

Reverse Mode

You can set a tape to play just one side, both sides in succession, or both sides continuously.

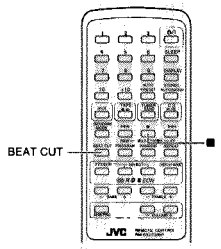
Press the REVERSE MODE button on the Remote Control.

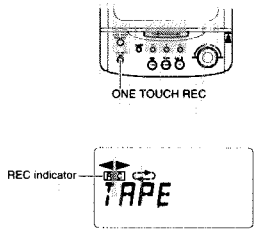
The indicator changes with each press of the button as shown.

→ ⇄ → ⇉ → (⇄) → (back to the beginning)

⇄ : The Cassette Deck automatically stops after playing one side of the tape.
⇉ : The Cassette Deck automatically stops after playing both sides of the tape.
(⇄) : The Cassette Deck continues to play both sides of the tape until the ∈ button is pressed.

Using the Cassette Deck (Recording)





When the System is in use, the display shows other items as well.
For simplicity, we show here only the items described in this section.

Recording onto a tape from any of the sound sources is simple. Just place a tape in the Cassette Deck, have the source ready, make one or two settings, and you're ready to record. For each source the procedure is a little bit different so we explain each separately. But first, here are a few things to make your recordings better.

Things To Know Before You Start Recording

- **It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.**
- When you want to record onto both sides of a tape, you can set Reverse mode to do so. Recording automatically stops after recording in the ◄ direction. Therefore, make sure that the tape direction is ► when recording with Reverse mode on.
- The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the System. Nor is it affected by adjusting the sound effects. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- Two small tabs on the back of the cassette tape, one for side A and one for side B, can be removed to prevent accidental erasure or recording.

- To record on a cassette with the tabs removed, you must cover the holes with adhesive tape first. However, when a type II tape is used, only cover part of the hole as shown, since the other part of the hole is used to detect the tape type.
- Type I and Type II tapes can be used for recording.

Note: At the start and end of cassette tapes, there is leader tape which cannot be recorded onto. Thus, when recording CDs or radio broadcasts, wind on the leader tape first to ensure getting the beginning of the recording.

CAUTION: If a recording you make has excessive noise or static, the Unit may have been too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the System.

Standard Recording

You can record any sound source to tape as follows:

1 Insert a blank or erasable tape into the Cassette Deck and wind past the tape leader.

2 Press the REVERSE MODE button on the Remote Control if you want to record on both sides of the tape.

Press the button until the ⇉ indicator is lit.

- When using Reverse mode, insert the tape so that it will be recorded in the forwards ► direction.

3 Check the recording direction for the tape.

Check that the Tape Direction indicator is the same as that for the tape in the Cassette Deck. If the directions are different, press the TAPE ◄► button to correct the tape direction and then press the ∈ button to stop the tape.

Prepare the source, by, for example, tuning in a radio station or turning on connected auxiliary equipment.

Note: For CD recording, refer to "CD Direct Recording" mentioned below.

Press the ONE TOUCH REC button on the Unit.

The "REC" indicator lights up and the System begins recording.

Notes for using Reverse mode for recording

When recording in Reverse mode, the System automatically stops when it reaches the end of the reverse ◄ direction. To record on both sides of a tape, make sure that the recording direction for the tape inserted is forwards ►, and that the Tape Direction indicator is also forwards ►, before you start recording.

To Stop at Any Time During the Recording Process

Press the ∈ button.

Recording an AM station to tape

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. If this happens, press the BEAT CUT button on the Remote Control to eliminate the beats.

1. Set to AM station and start recording.
2. Press the BEAT CUT button to eliminate the beats.
   Each time you press the button, the display changes as shown below:
   → CUT-1→ CUT-2 → CUT-3 → CUT-4 → (back to the beginning)

CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have set in a program.

Insert a cassette in the Cassette Deck and wind past the tape leader.

Insert a CD.

Press the CD ▷▯▯ button (or CD ►/II button on the Remote Control).

Press the ∈ button.

- If you want to record specific tracks only, program the tracks beforehand. You can check their total playback time on the display during programming. (See page 12.)

If you want to record on both sides of a tape, press the REVERSE MODE button on the Remote Control until the " ⊃ " indicator is lit. Check that the recording direction for the tape and the Tape Direction indicator is correct. (See "Notes for using Reverse mode for recording".)

Choose whether to have pauses between recorded selections.

- If nothing is done, a non-recorded pause of about four seconds will be automatically left between selections.
- If you do not want pauses between selections, do the following before proceeding to the next step.

Press the CD ▷▯▯ button (or the CD ►/II button on the Remote Control) twice.

The CD player enters Pause mode.

Press the ONE TOUCH REC button on the Unit.

The "REC" indicator lights up and the System begins recording.

- If you make a recording with Reverse mode on, the Unit will record the last song at the end of the first side onto the next side from its beginning when the song has been recorded more than 12 seconds on the first side.
  If the last song has been recorded less than 12 seconds, then the previous song will again be recorded on the next side as it will not be completely recorded on the first side because of leader tape.
- After the CD player has played the entire CD, or all the programmed tracks, the tape automatically stops.

To stop at any time during the recording process, press the ∈ button. The tape stops after four seconds.

Note: When making SLEEP timer settings while doing CD Direct recording, set enough time to allow for the CD to finish playing, otherwise the power will go off before recording is completed.

One Track Recording

Insert a cassette into the Cassette Deck and wind past the tape leader.

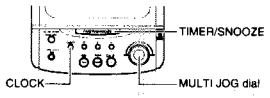
Play the track on the CD you wish to record.

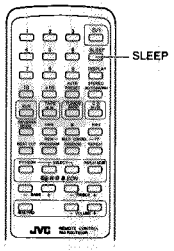
Press the ONE TOUCH REC button on the Unit.

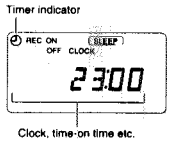
The CD player returns to the beginning of that track and the track is recorded on the tape. After recording, the CD player and Cassette Deck automatically stop.

English English

Using the Timers







When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.

The timers let you control listening and recording functions automatically.

Setting the Clock

The clock must be correctly set for the timers to work.
You can set the clock whether the Unit is on or off.

Press the CLOCK button on the Unit for more than two seconds.

Set the hour and minute within two minutes respectively. Otherwise, setting is cleared and must be repeated from the beginning.

Turn the MULTI JOG dial to the right or left to increase or decrease the hour.

The hour changes with every two clicks of the dial.

Press the CLOCK button.

The minute digits blink on the display.

Turn the MULTI JOG dial to the right or left to increase or decrease the minute.

The minute changes with every two clicks of the dial.

Press the CLOCK button.

The selected time is set and the seconds start counting from 0.

CAUTION: If there is a power failure, the clock loses its setting. The display shows "0:00" and the "CLOCK" indicator blinks, and the clock must be reset.

Setting the Timer

You can set the Timer whether the Unit is on or off.

Press the TIMER/SNOOZE button on the Unit for more than two seconds.

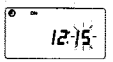
The Timer indicator and "ON" indicator light up and the hour digits blink on the display.
Perform each setting within 30 seconds. Otherwise, setting is cleared and must be repeated from the beginning.

Set the time you want the Unit to come on.

(Example: To set the timer to 12:15)

1. Set the hour by turning the MULTI JOG dial to the right or left in the same way you set the time for the clock.

2. Press the TIMER/SNOOZE button.
3. Set the minute by turning the MULTI JOG dial to the right or left.



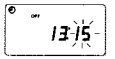
4. Press the TIMER/SNOOZE button.
   The "ON" indicator goes out and the "OFF" indicator lights up on the display.

Set the time you want the Unit to be turned off.

(Example: To set the timer stop time to 13:15)

1. Set the hour by turning the MULTI JOG dial.

2. Press the TIMER/SNOOZE button.
3. Set the minute by turning the MULTI JOG dial.



4. Press the TIMER/SNOOZE button.
   The "TUNER" blinks on the display.

Turn the MULTI JOG dial to the right or left to select the source.

The display changes as shown.

↔ TUNER ↔ TUNER REC ↔ CD ↔ TAPE ↔

TUNER: Selects the last station you were listening to.
TUNER REC: Records the last station you were listening to.
CD: Plays the CD.
TAPE: Plays the tape.

Press the TIMER/SNOOZE button.
The volume level blinks on the display.

Turn the MULTI JOG dial to the right or left to select the volume level (0 to 50).

Press the TIMER/SNOOZE button.
The timer setting is completed and the display returns to the display before you set the timer.

Before turning off the Unit, prepare the music source selected in step 4.

TUNER: Tune to the desired station.
TUNER REC: Tune to the desired station and insert a cassette tape for recording the station.
CD: Insert a CD.
TAPE: Insert a prerecorded cassette tape.

- In the source "TUNER", "CD", or "TAPE", the timer acts as a Daily timer, and having been set will be activated at the same time every day until the setting is turned off. In the source "TUNER REC", the timer acts as a Once timer. Having been performed, the details of the setting remain stored but the Timer status is set to off. To re-activate the Once timer, press the TIMER/SNOOZE button for more than two seconds. Press the TIMER/SNOOZE button until the display returns to the original display before setting the time.

Press the ⏻/I button to turn off the Unit.

To cancel the timer, press the TIMER/SNOOZE button for more than two seconds until the Timer indicator goes out on the display.
To re-activate the cancelled timer, press the TIMER/SNOOZE button for more than two seconds until the Timer indicator lights up on the display. Press the TIMER/SNOOZE button until the display returns to the original display before setting the time.
To confirm the timer settings, cancel the timer once and then activate the timer again by pressing the TIMER/SNOOZE button for more than two seconds.
Press the TIMER/SNOOZE button repeatedly, and you can see the current timer settings (ON time, OFF time, source, and volume).
To change the timer setting, repeat the setting procedure from the beginning.

- When the timer turns on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.
- When the volume setting is set to "VOLUME-" (volume level is not specified), the timer playback volume is set to the level used before setting the timer.

CAUTION: If the Unit is unplugged, or a power failure occurs, the clock and timer setting will be lost after about 24 hours. You will need to reset the clock first, then the timer.

5-Minute Snoozing

When the timer turns on the music source you can, if you wish, activate the 5-minute snoozing function to temporarily stop playback:

Press the TIMER/SNOOZE button on the Unit.
The power is turned off for five minutes for snoozing.

Setting the SLEEP Timer

Use the Sleep Timer to turn the Unit off after a certain number of minutes when it is playing. By setting this timer, you can fall asleep to music and know that your Unit will turn off by itself rather than play all night.

■ You can only set the Sleep Timer when the Unit is on and a source is playing.

To set the SLEEP Timer, follow this procedure:

With the System on and a source playing, press the SLEEP button on the Remote Control.
The "SLEEP" indicator lights up.

Set the length of time you want the source to play before shutting off.

- Each time you press the SLEEP button, it changes the number of minutes shown on the display in this sequence:

→ 30 → 60 → 90 → 120 → Cancelled → (back to the beginning)

After setting the number of minutes for the Sleep Timer, the display will stop blinking after 5 seconds and return to the display as before setting the Sleep Timer.
The Unit is now set to turn off after the number of minutes you set.

To Confirm the Sleep Time

When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

To Cancel the SLEEP Timer Setting

Press the SLEEP button until the "SLEEP" indicator goes off on the display.
Turning off the Unit also cancels the SLEEP Timer.

English

Care And Maintenance

Handle your CDs, cassette tapes, and Cassette Deck carefully, and they will last a long time.

Compact Discs

- Only CDs bearing this mark can be used with this unit. However, continued use of irregular shape CDs (heart-shape, octagonal, etc.) can damage the unit.

- Remove the CD from its case by holding it at the edges while pressing the case's center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.

- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.

CAUTION: Do not use any solvent (for example, conventional record cleaner, spray thinner, benzine, etc.) to clean a CD.

Moisture Condensation

Moisture may condense on the lens inside the Unit in the following cases:

- After turning on heating in the room.
- In a damp room.
- If the Unit is brought directly from a cold to a warm place.

Should this occur, the Unit may malfunction. In this case, leave the Unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

General Notes

In general, you will have the best performance by keeping your tapes, CDs, and the mechanism clean.

- Store tapes and CDs in their cases, and keep them in cabinets or on shelves.
- Keep the Cassette Deck's tape holder and the CD holder closed when not in use.

Cassette Tapes

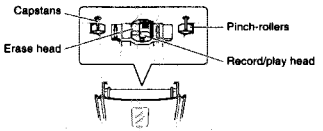
- If the tape is loose, it may get stretched, cut, or caught in the cassette. Take up the slack by inserting a pencil in one of the reels and rotating.

- Do not touch the tape surface.

- Do not store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In moist areas
  - On a TV or speaker
  - Near a magnet

Cassette Deck

- If the heads, capstans, or pinch-rollers of the Cassette Deck become dirty, the following may occur:
  - Loss of sound quality
  - Discontinuous sound
  - Fading
  - Incomplete erasure
  - Difficulty recording
- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.

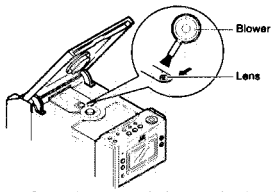


- If the heads become magnetized, the Unit will produce noise or lose high frequency notes.
- To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).

Cleaning the lens

If the lens in the CD pickup is dirty, dropout, etc., could degrade sound.
Open the CD holder and clean the lens as shown.

- Use a blower (available from a camera store) to blow dust off the lens.



- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.

Troubleshooting

- If you are having a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the System has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	• Connections are incorrect, or loose. • Headphones are connected.	• Check all connections and make corrections. (See pages 4 - 5.) • Disconnect the headphones.
Unable to record.	Cassette record protect tabs are removed.	Cover the holes on the back edge of the cassette with tape.
Poor radio reception	• The antenna is disconnected. • The AM Loop Antenna is too close to the Unit. • The FM Wire Antenna is not properly extended and positioned.	• Reconnect the antenna securely. • Change the position and direction of the AM Loop Antenna. • Extend FM Wire Antenna to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Unable to operate the Remote Control.	• The path between the Remote Control and the sensor on the Unit is blocked. • The batteries have lost their charge.	• Remove the obstruction. • Replace the batteries.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the Unit then plug it back in.
The cassette door cannot be opened.	During tape playing, the power cord was unplugged.	Plug in the power cord, press the ⏻/| button, and then press the ⏏ button.

Specifications

Amplifier

Output Power: 32 W (16 W + 16 W) at 4 ohms (Max.)
28 W (14 W + 14 W) at 4 ohms (10% THD)

Input Sensitivity/Impedance (1 kHz)
AUX: 300 mV/47 kohms
Speaker terminals: 4 - 16 ohms
Phones: 16 ohm - 1 kohms
0 - 15 mW/ch output into 32 ohms

Cassette Deck

Frequency Response
Type II (CrO_2): 60 - 15,000 Hz
Wow And Flutter: 0.15% (WRMS)

CD Player

Signal-To-Noise Ratio: 90 dB
Wow And Flutter: Unmeasurable

Tuner

FM Tuner
Tuning Range: 87.5 - 108.0 MHz
AM Tuner
Tuning Range: (MW) 522 - 1,629 kHz
(LW) 144 - 288 kHz

Speaker Specifications

(each unit)
Speakers: 9 cm cone × 1, 4 cm cone × 1
Impedance: 4 ohms
Dimensions: 131 × 203 × 202 mm (W/H/D)
Mass: Approx. 1.8 kg

General

Dimensions: 404 × 209 × 270 mm (W/H/D)
Mass: Approx. 6.9 kg

Accessories

Power Cord (1)
AM Loop Antenna (1)
Remote Control (1)
Batteries R6P (SUM-3)/AA (15F) (2)
FM Wire Antenna (1)

Power Specifications

Power Requirements: AC 230 V ~ , 50 Hz
DC 12V (via optional CA-R120E car adaptor)
Power Consumption: 40 watts (power on mode)
2.9 watts (in Standby mode)

Design and specifications are subject to change without notice.

JVC

VICTOR COMPANY OF JAPAN, LIMITED

EN, GE, FR, NL, SP, IT

0293MNMCREJSC

UX-T300R

<<MEMO>>

Location of Main parts

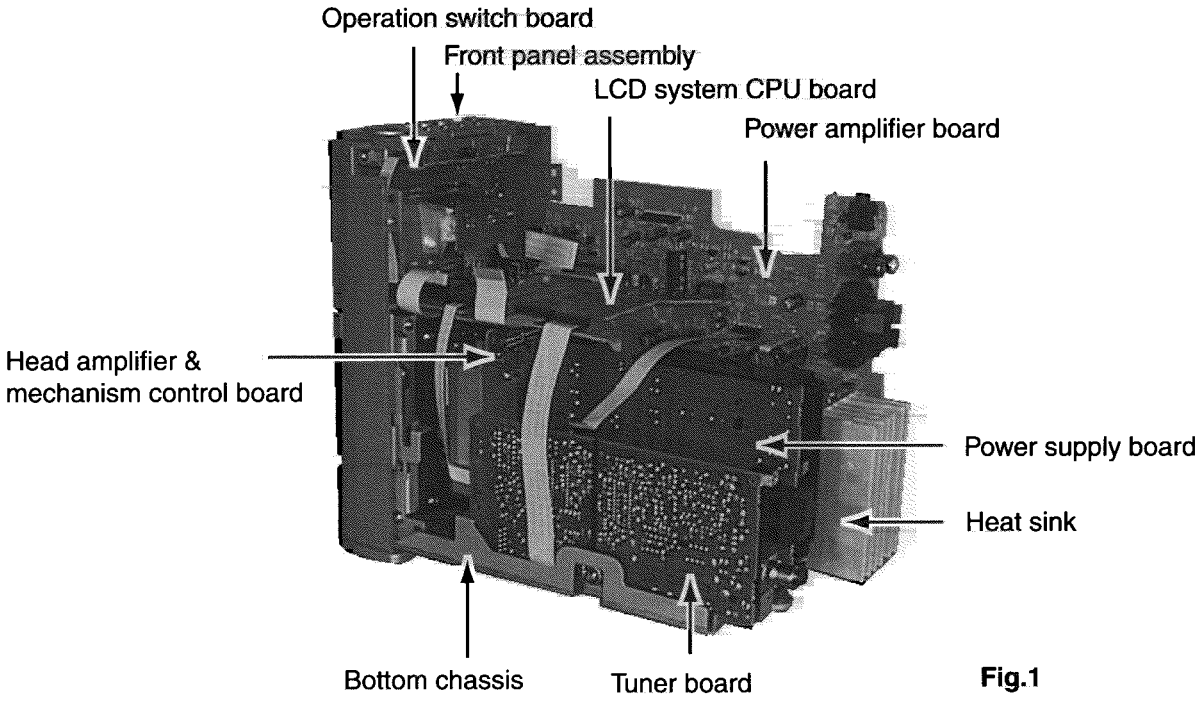


Fig.1

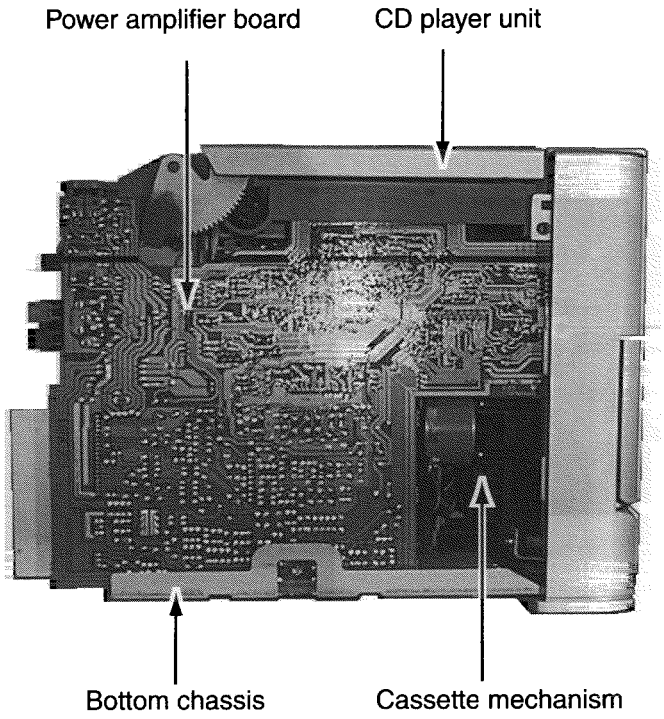


Fig.2

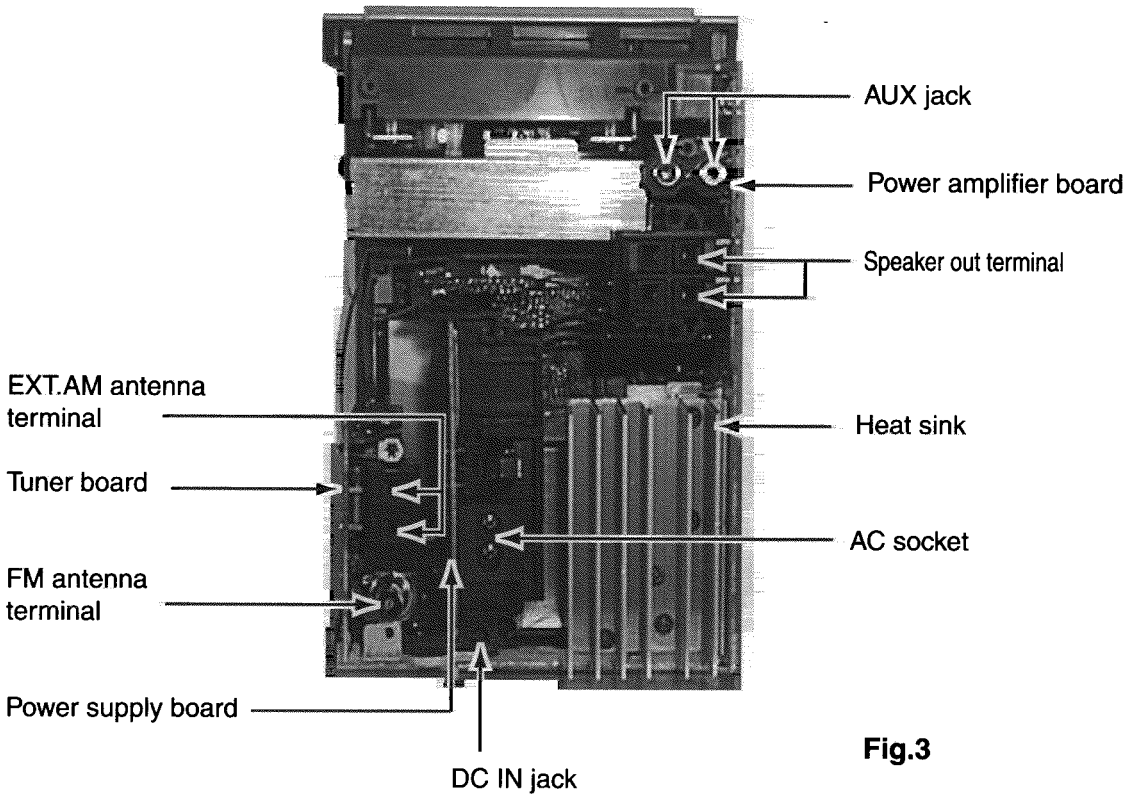

AUX jack
Power amplifier board
Speaker out terminal
EXT.AM antenna terminal
Heat sink
Tuner board
AC socket
FM antenna terminal
Power supply board
DC IN jack

Fig.3

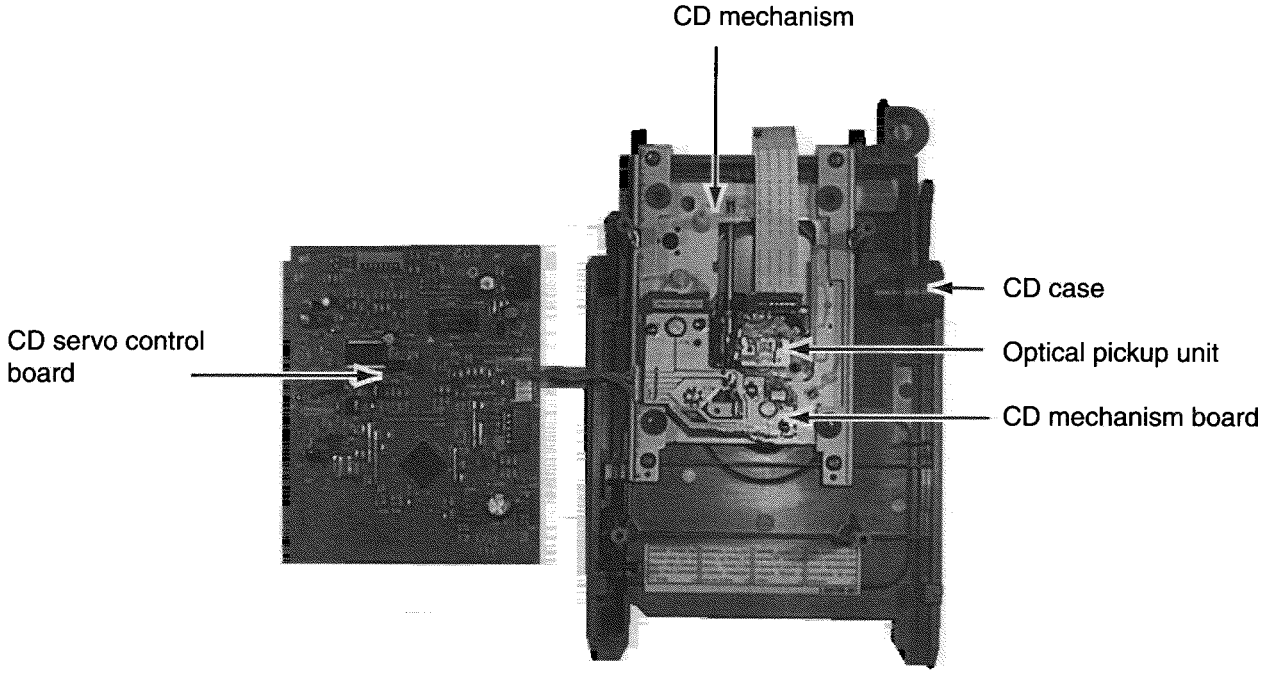

CD mechanism
CD case
CD servo control board
Optical pickup unit
CD mechanism board

Fig.4

Removal of Main Parts

■ **Removing the panel**
(See Fig.5 and 6)

1. From behind the body, remove the seven screws ① retaining the rear panel (See Fig.5).
2. After turning the body upside down, remove the two screws ② retaining the rear panel (See Fig.6).
3. Take out the rear panel from behind the body.

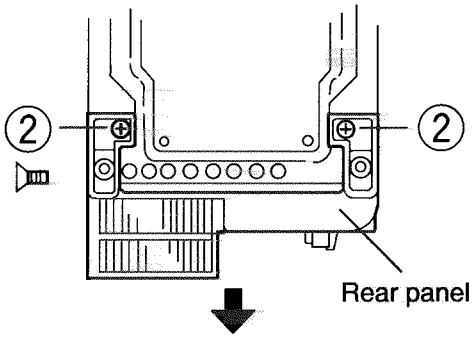
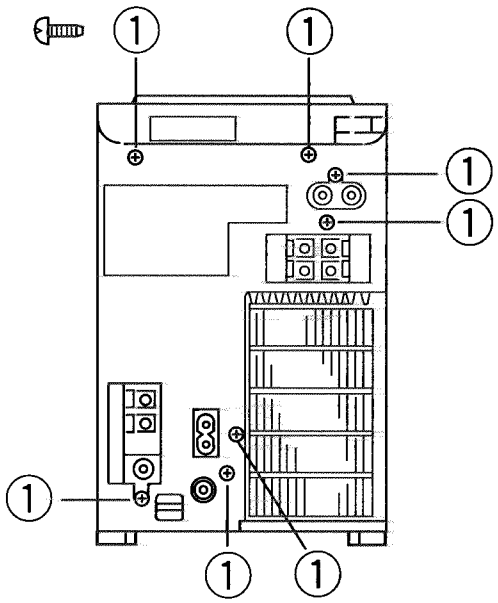


Fig. 6



■ **Removing the side panels (L and R)**
(See Figs, 7~10)

1. After turning the body upside down, remove the two screws ③ retaining the front cabinet assembly (See Fig. 7).
2. After turning the body back to its initial position, open the CD door while pressing the upper [OPEN/CLOSE] button (See Fig. 8).
3. While moving the side panel (L) in the arrow direction, remove the panel from the left side of the body (See Fig. 9).
4. While moving the side panel (R) in the arrow direction, remove this panel from the right side of the body (See Fig. 10).

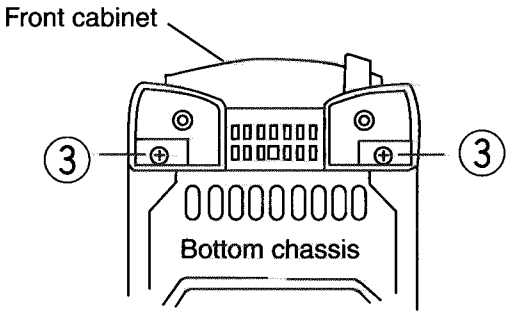


Fig.7

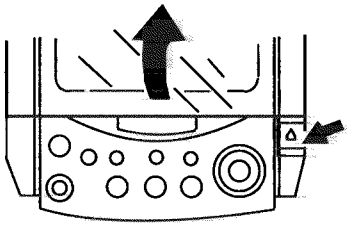


Fig.8

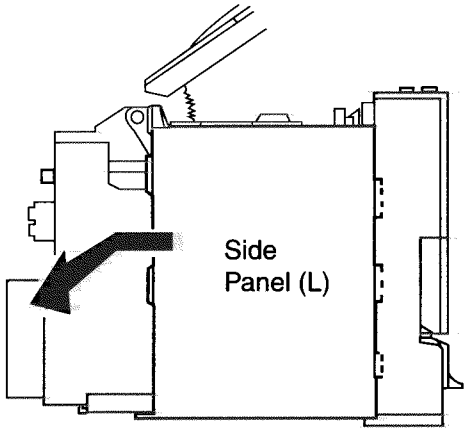


Fig. 9

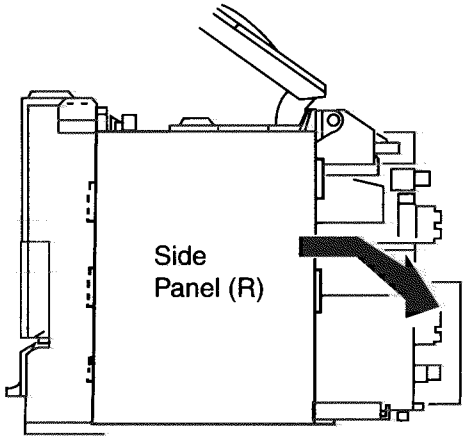


Fig. 10

■ Removing the CD player unit
(See Figs. 11 and 12)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. From the connector CN603 on the CD servo control P.C. board, disconnect the card wire outgoing from the power amplifier P.C. board (See Fig. 11)
4. From the connector CN604 on the CD servo control P.C. board, disconnect the card wire outgoing from the connector CN766 on the LCD system CPU P.C. board. (See Fig. 11)
5. Disengage the left and right engagements aand b fixing the CD player unit by using a minus screw driver, etc. (See Figs. 11 and 12)

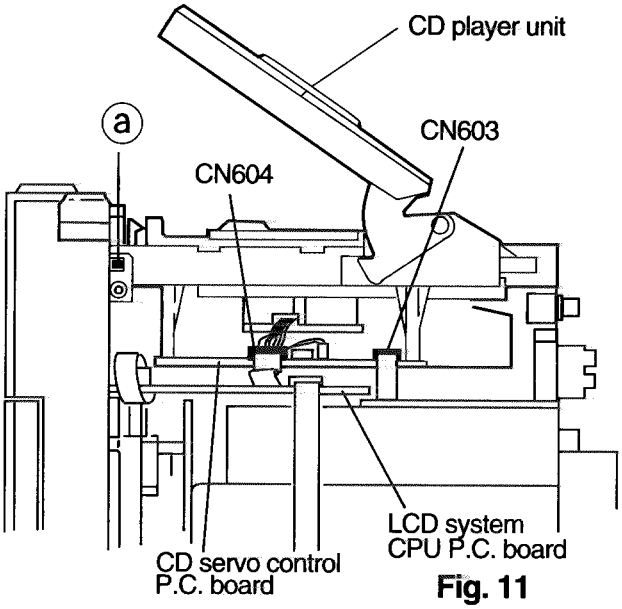


Fig. 11

■ Removing the Power amplifier P.C. board and Heat sink
(See Figs. 11 and 12)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the five screws 4and 5 retaining the heat sink. (See Fig. 13)
5. From the connector CN303 on the power amplifier P.C. board, disconnect the card wire outgoing from the connector CN34 on the head amplifier & mechanism control P.C. board. (See Fig. 13)
6. From the connector CN901 on the power supply board, disconnect the connector wire out going from the connector W306 on the power amplifier P.C. board. (See Fig. 13)
7. Remove the one screw 6retaining the power amplifier P.C. board. (See Fig. 14)
8. Remove the power amplifier P.C. board from the two connectors CN711 and CN712 on the LCD system CPU P.C. board. (See Fig. 13)
9. After removing the power amplifier P.C. board from the key way con the bottom chassis, take this P.C. board out while raising it in the arrow direction. (See Fig. 14)

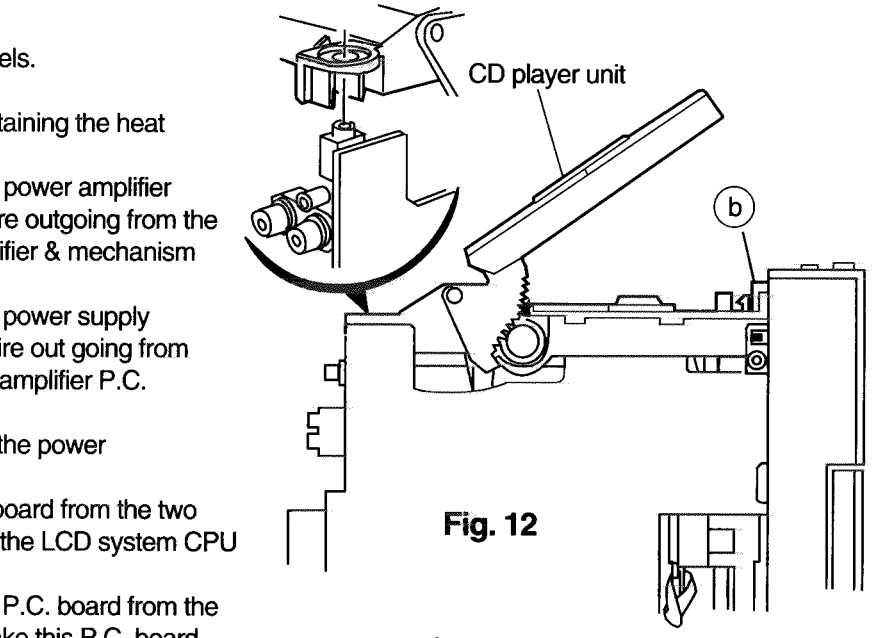


Fig. 12

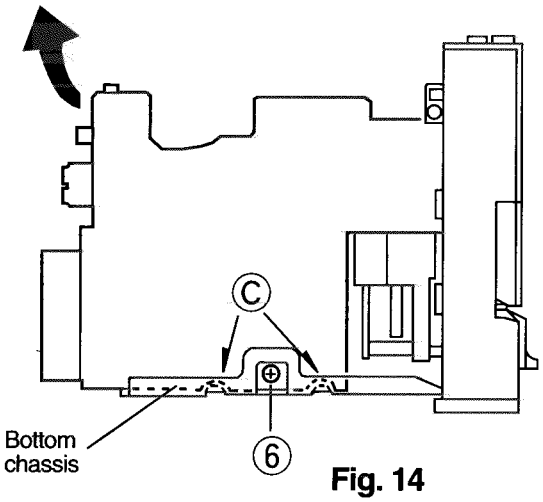


Fig. 14

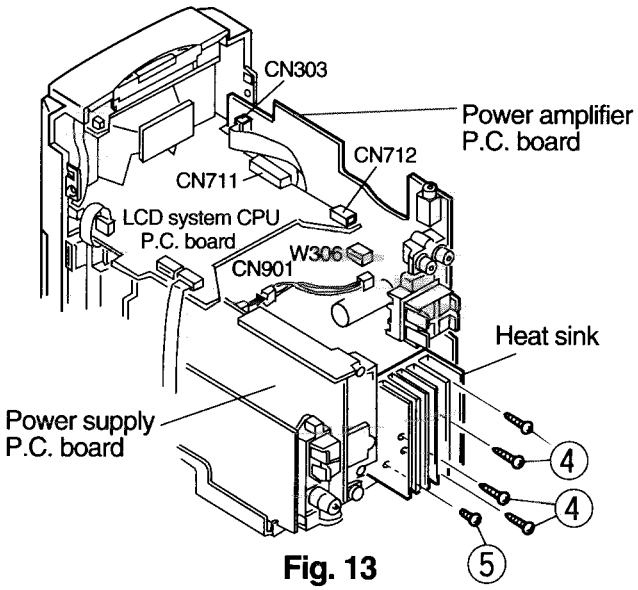


Fig. 13

■ Removing the tuner P.C. board

(See Fig. 15)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. From the right side of the body, remove the one screw ⑦ retaining the tuner P.C. board.
5. From connector CN1 on the P.C. board, disconnect the card wire outgoing from connector CN701 on the LCD system CPU P.C. board.

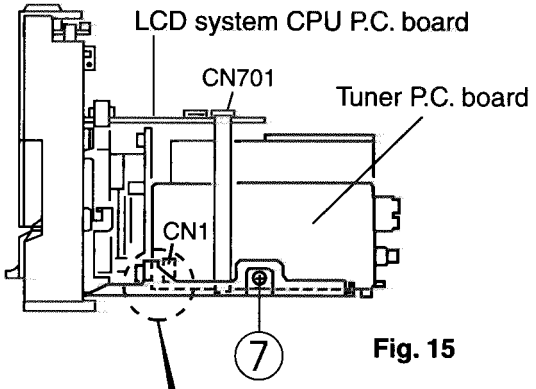


Fig. 15

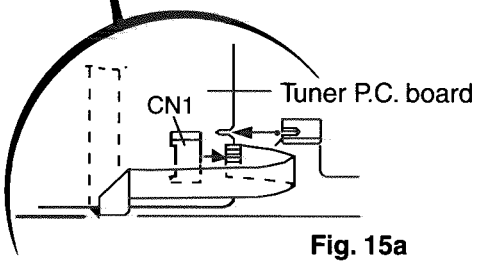


Fig. 15a

■ Removing the front panel assembly

(See Fig. 16)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier P.C. board and heat sink.
5. Remove the tuner P.C. board.
6. From the bottom of the body, disengage the engagement ⓓ fixing the front panel assembly in Fig. 16 while pressing it with a minus screw driver, etc.

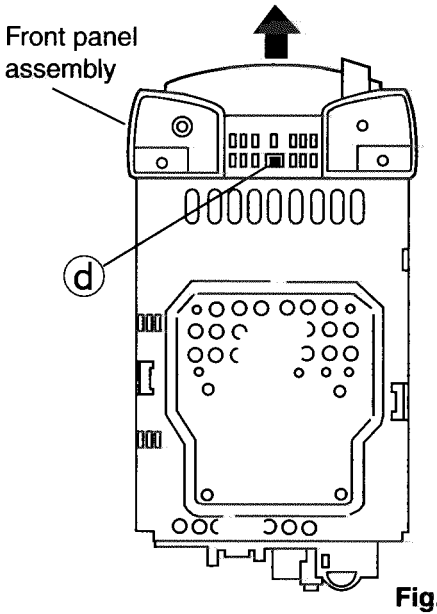


Fig. 16

■ Removing the power transformer and power supply P.C. board

(See Fig. 17)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier P.C. board and heat sink.
5. Remove the tuner P.C. board.
6. Remove the four screws ⑧ retaining the power transformer and power supply P.C. board and the one screw ⑨ retaining the jack holder.

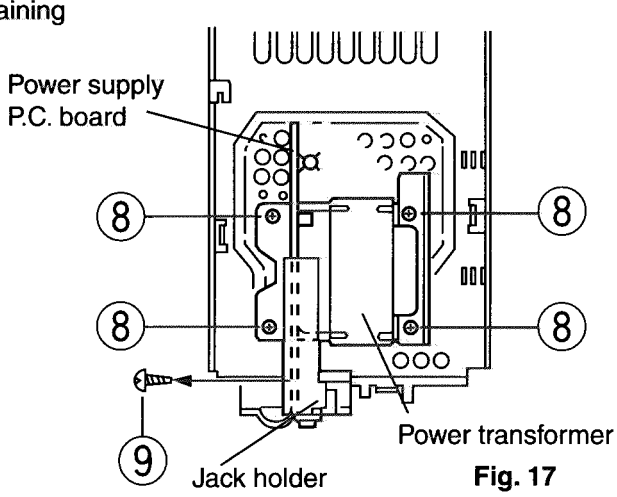


Fig. 17

■ **Removing the cassette mechanism unit**
(See Fig. 18)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier P.C. board.
5. Remove the front panel assembly.
6. From inside the front panel assembly, remove the four screws ⑨ and ⑩ retaining the cassette mechanism unit.
7. From the connector CN33 on the head amplifier & mechanism control P.C. board, disconnect the card wire outgoing from the connector CN731 on the LCD system CPU P.C. board.

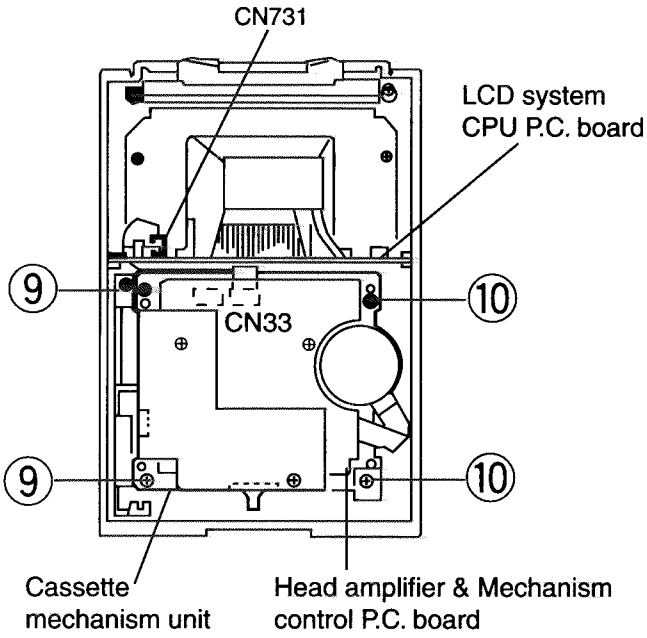


Fig. 18

■ **Removing the function switch P.C. board and LCD system CPU P.C. board**
(See Figs. 19 and 20)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the front panel assembly.
5. Remove the cassette mechanism unit.
6. From inside the front panel assembly remove the two screws ⑪ retaining the operation switch P.C. board.
7. From the connector CN782 on the LCD system CPU P.C. board, disconnect the connector wire outgoing from the connector CN802 on the operation switch P.C. board.
8. While sliding the two engagements ⓔ fixing the LCD system CPU P.C. board, pull out this P.C. board.
9. After disconnect the connector CN801 on the function switch P.C. board from the connector CN781 on the LCD system CPU P.C. board, remove the respective P.C. boards while pulling them upward.

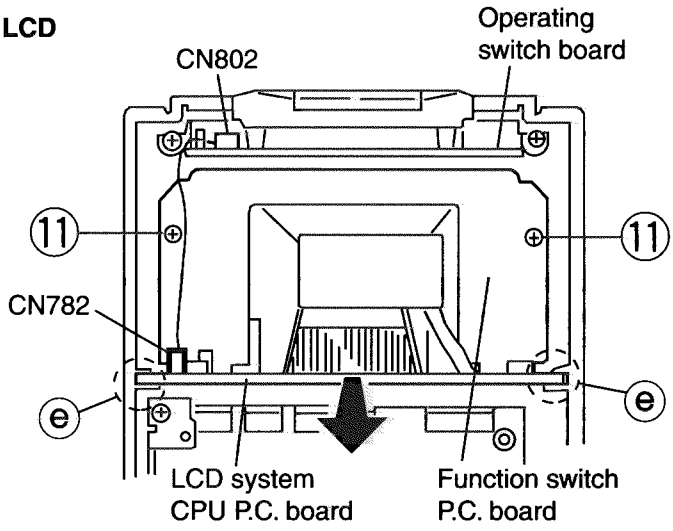


Fig. 19

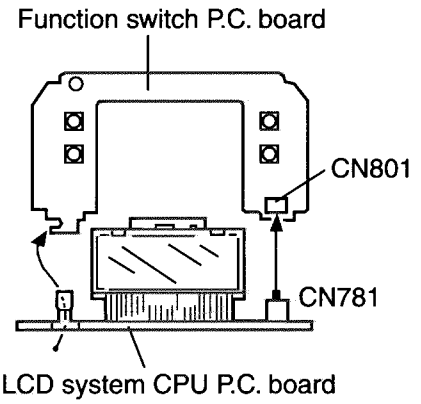


Fig. 20

■ **Removing the operating switch P.C. board**
(See Figs. 21 and 22)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the front panel assembly.
5. Remove the cassette mechanism unit.
6. Remove the LCD system CPU board.
7. Remove the two screws Retaining the operating switch P.C. board.
8. Remove the [MULTI-JOG] button.
9. Remove the [VOLUME] and [PARKS] buttons.
10. Take out the standby LED lens.
11. After removing the four pawls ⓕ fixing the operating switch P.C. board, remove the switch while pulling it in the arrow direction.
12. Remove the two screws ⑬ retaining the operating switch P.C. board.
13. Remove the six pawls ⓖ fixing the operating switch P.C. boa

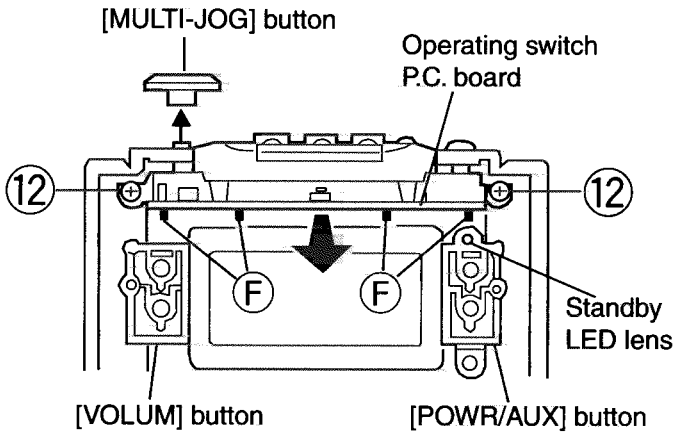


Fig. 21

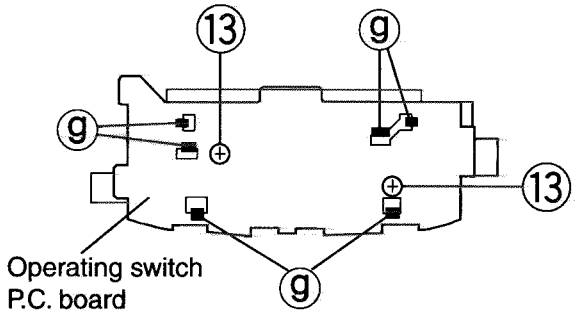


Fig. 22

<<Cassette Mechanism Section>>

■ Removing the Playback/Recording & Eraser Head

1. While shifting the trigger arms seen on the right side of the head mount in the arrow direction, turn the flywheel R in counterclockwise direction until the head mount has gone out with a click (See Fig. 23).
2. When the flywheel R is rotated in counterclockwise direction, the Playback/Recording & Eraser head will be turned in counterclockwise direction from the position in Fig. 24 to that in Fig. 25.
3. At this position, disconnect the flexible P.C. board (outgoing from the Playback/Recording & Eraser head) from the connector CN31 on the head amplifier & mechanism control P.C. board.
4. After dismounting the FPC holder, remove the flexible P.C. board.
5. Remove the flexible P.C. board from the chassis base.
6. Remove the spring Afro behind the Playback/Recording & Eraser head.
7. Loosen the reversing azimuth screw retaining the Playback /Recording & Eraser head.
8. Take out the Playback/Recording & Eraser head from the front of the head mount.
9. The Playback/Recoring & Eraser head should also be removed similarly according to Steps 1 ~ 8 above.

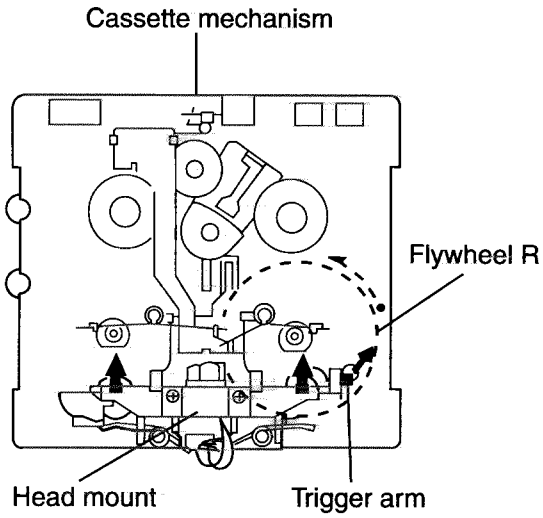


Fig. 23

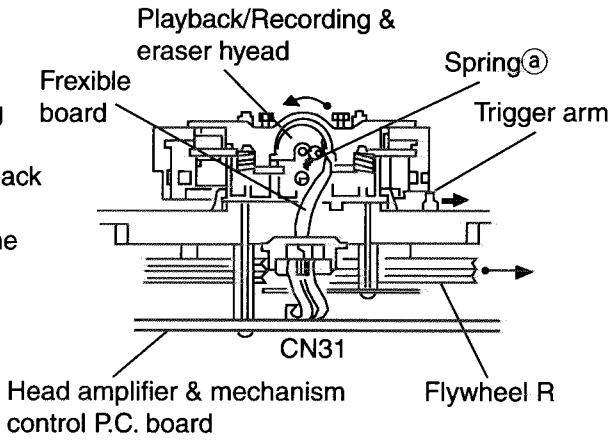


Fig. 24

■ Reassembling the Playback/Recording & Eraser Head

1. Reassemble the playback head from the front of the head mount to the position as shown in Fig. 25.
2. Fix the reversing azimuth screw.
3. Set the spring ⓐ from behind the Playback/Recording & Eraser head.
4. Attach the flexible P.C. board to the chassis base, and fix it with the FPC holder as shown in Fig. 25.
5. The Playback/Recording & Eraser head should also be reassembled similarly to Step 1 ~ 4 above.

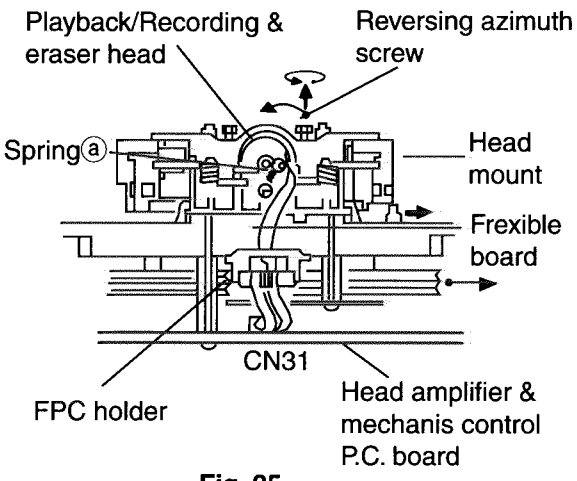


Fig. 25

■ Removing the Head amplifier & Mechanism control P.C. board

(See Fig. 26)

1. Remove the cassette mechanism assembly.
2. After turning over th cassette mechanism assembly, remove the three screws ① retaining the head amplifier & mechanism control P.C. board.
3. Disconnect the connector CN32 on the P.C. board including the connector CN 1 on the reel pulse P.C. board.
4. When necessary, remove the 4 pin parallel wire soldered to the main motor.

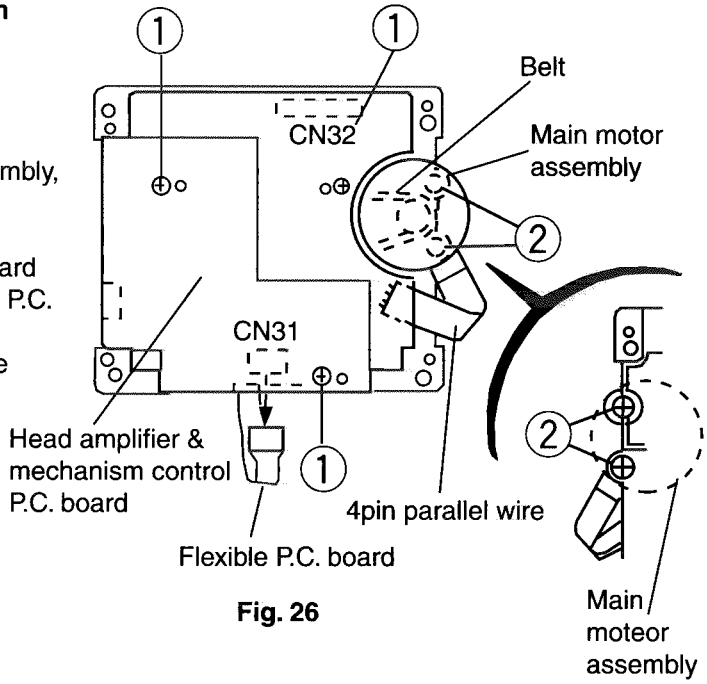


Fig. 26

■ Removing the Main Motor Assembly

1. Remove the two screws ② retaining the main motor assembly (See Fig. 26, 26a).
2. While raising the main motor, remove the capstan belt from the motor pulley (See Fig. 26a).

Caution 1: Be sure to handle the capstan belt so carefully that this belt will not be stained by grease and other foreign matter. Moreover, this belt should be hanged while referring to the capstan belt hanging method in Fig. 27, 28.

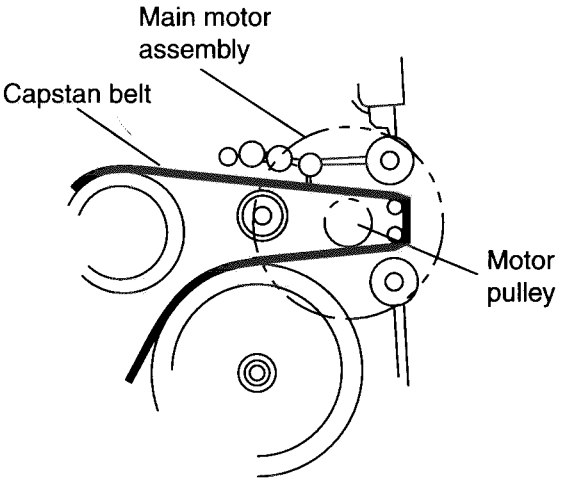


Fig. 26a

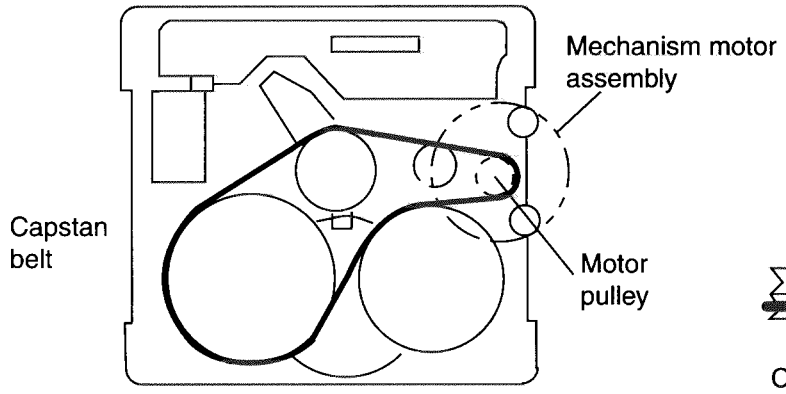


Fig. 27

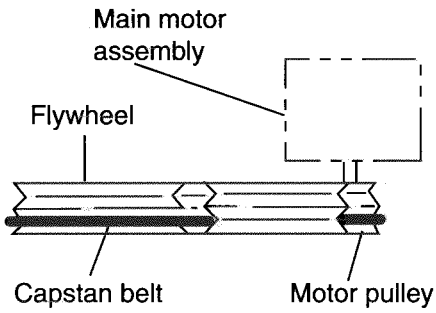


Fig. 28

■ Removing the Flywheel

(See Figs. 29 and 30)

1. Remove the head amplifier & mechanism control P.C. board.
2. Remove the main motor assembly.
3. After turning over the cassette mechanism, remove the slit washers ⓑ and fixing the capstan shafts R and L, and pull out the flywheel R and L respectively from behind the cassette mechanism.

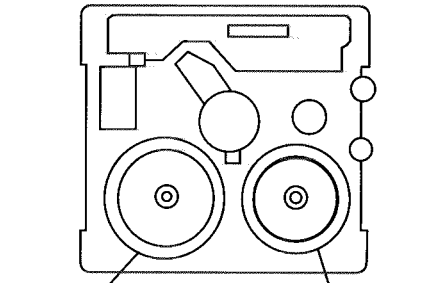


Fig. 30

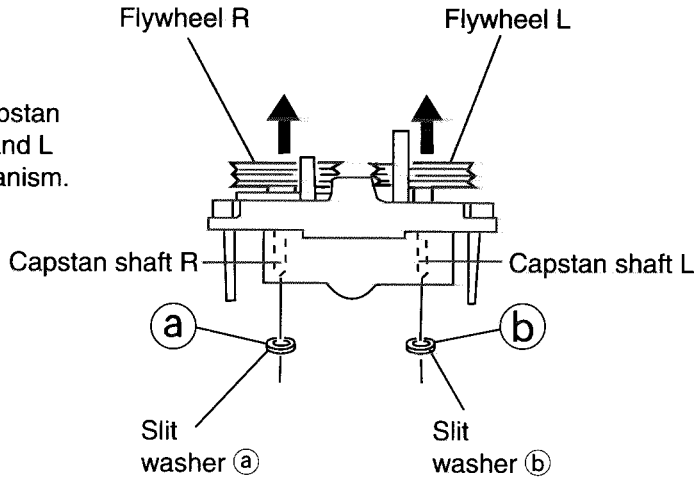


Fig.29

■ Removing the Reel Pulse P.C. board and Solenoid

(See Fig. 31)

1. Remove the five pails (ⓓ ~reattaining the reel pulse P.C. board.
2. From the surface of the reel pulse P.C. board parts, remove the two pails lan retaining the solenoid.

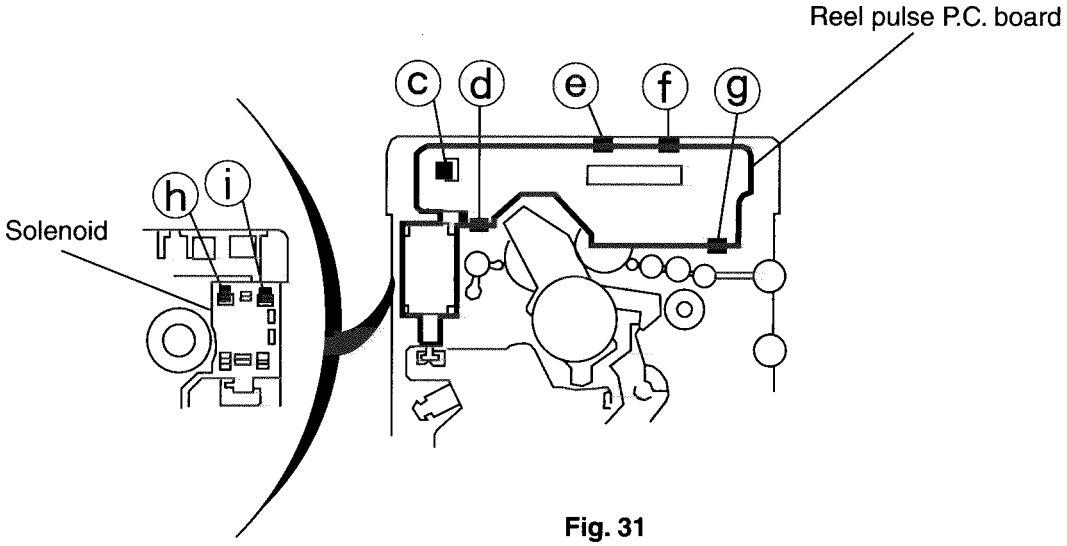


Fig. 31

<<CD Player Unit Section>>

■ Removing the CD mechanism and CD servo control P.C. board

(See Figs. 32 and 33)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. After turning back the CD player unit, remove the four screws ① retaining the CD servo control P.C. board and shield.
5. From the connector CN601 on the CD servo control P.C. board, disconnect the card wire outgoing from the CD mechanism.
6. From the connector P011 on the CD mechanism P.C. board, disconnect the connector wire outgoing from the connector CN602 on the CD servo control P.C. board.
7. Remove the four screws ② retaining the CD mechanism.
8. While sliding the CD mechanism in the arrow direction, take turn table out so carefully that it does not come into contact with the chassis.

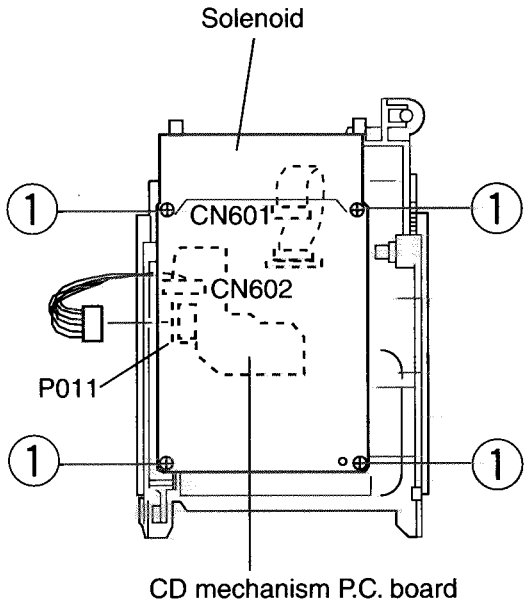


Fig.32

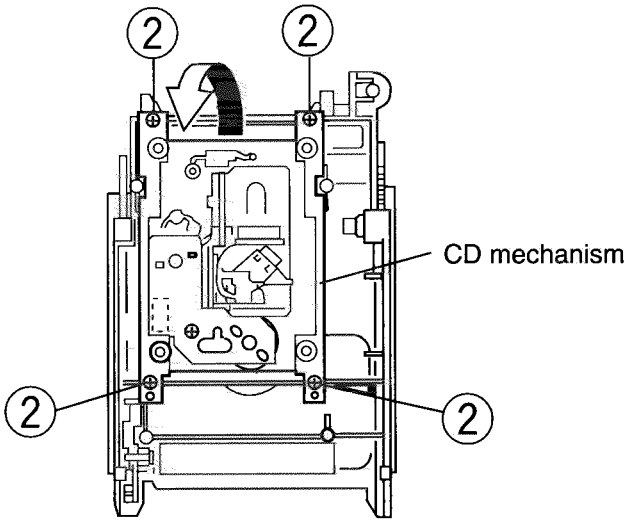


Fig.33

Main Adjustment

■ Measurement Instruments Required for Adjustment

1. Low frequency oscillator
   This oscillator should have a capacity to output 0dBs to 600 Ω at an oscillation frequency of 50Hz-20kHz.
2. Attenuator impedance : 600 Ω
3. Electronic voltmeter
4. Distortion meter
5. Frequency counter
6. Wow & flutter meter
7. Test tape
   VT712 : Tape speed and running unevenness (3kHz)
   VT724 : Reference level (1kHz)
   TMT7036 : Head angle (10kHz), playback frequency characteristics (1kHz) and dubbing frequency characteristics (63, 1 and 10kHz)

Because of frequency -mixed tape with 63, 1, 10 and 14kHz (250nWb/m - 24dB), use this tape together with a filter.

8. Blank tape
   TYPE Ⅰ : AC-225
   TYPE Ⅱ : AC-514
9. Torque gauge : For play and back tension FWD(TW2111A), REV(TW2121a) and FF/REW(TW2231A)

■ Measurement conditions

Power supply voltage ---------- AC230V (50Hz)
Reference output ---------- Speaker : 0.775V/4Ω
Headphone : 0.245V/32Ω
Reference frequency and input level ---------- 1kHz, AUX : -8dBs
Input for confirming recording and playback characteristics ---------- AUX : -28dBs
Measurement output terminal ---------- Speaker J3002
※ Load resistance ---------- 4Ω

● Radio Input signal

AM frequency ---------- 400Hz
AM modulation ---------- 30%
FM frequency ---------- 400Hz
FM frequency deviation ---------- 22.5kHz

● Tuner section

Voltage applied to tuner ---------- +B : DC5.7V
VT : DC 12V
Reference measurement output ---------- 26.1mV(0.28V)/4Ω
Input positions ------ AM : Standard loop antenna
FM : TP1 (hot) and TP2 (GND)

● Standard measurement position of volume

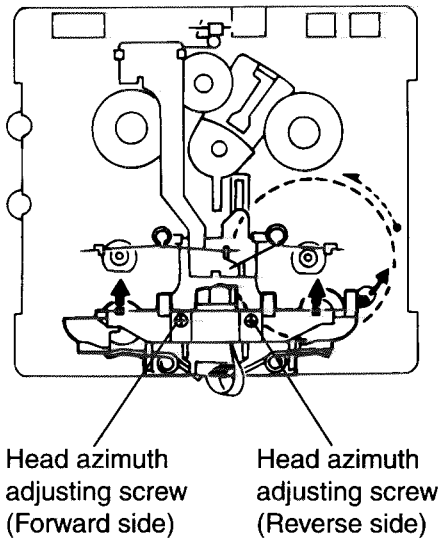
Bass ---------- Off
Active hoper bass pro ---------- Off
Up and down adjustment of volume ----- VOL : 23

Precautions for measurement

1. Apply 30pF and 33kΩ to the IF sweeper output side and 0.082μF and 100kΩ in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MIX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly carefully.
7. In the case of BTL connection amp., the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an BTL system.
8. For connecting a dummy resistor when measuring the output, use the wire with a greater code size.
9. Whenever any mixed tape is used, use the band pass filter (DV-12).

<<Arrangement of Adjusting Position>>

● **Cassette mechanism section**



● **Cassette mechanism section (Back side)**

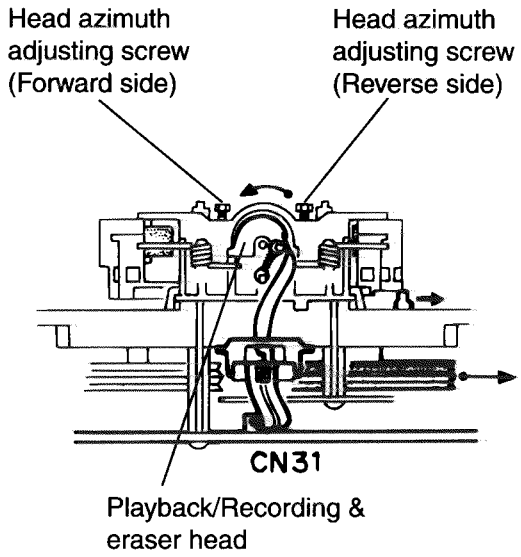


Fig.34

● **Front panel assembly section**

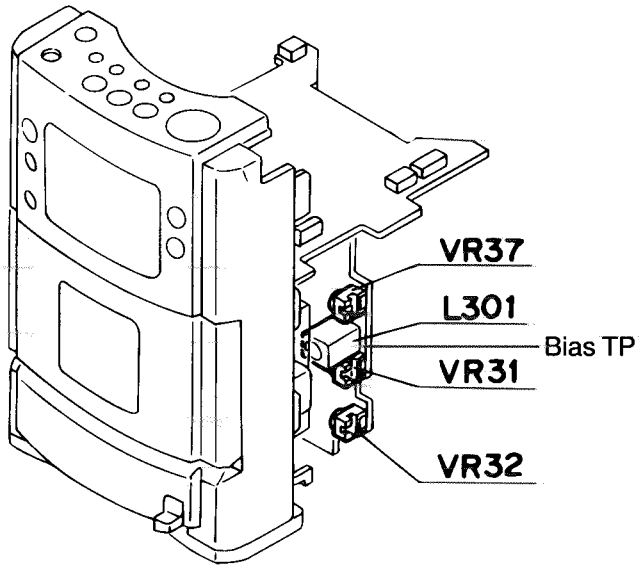


Fig. 35

■ Tape Recorder Section

Items	Measurement conditions	Measurement method	Standard Values	Adjusting positions
Confirmation of head angle	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 4Ω) : Headphone terminal	① Playback the test tape TMT7036 (10kHz) ② With the recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum. After adjustment, lock the head azimuth at least by half turn. ③ In either case, this adjustment should be performed in both the forward and reverse directions with the head azimuth screw.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Confirmation of tape speed	Test tape : VT712 (3kHz) or TMT7036 (3kHz) Measurement output terminal : Headphone terminal	Adjust VR37 so that the frequency counter reading becomes 3,010Hz±15Hz when playing back the test tape VT712 (3kHz) with playback and recording mechanism after ending forward winding of the tape.	Tape speed of deck : 3,010Hz ± 15Hz	VR37

■ Reference Values for Confirmation Items

Items	Measurement conditions	Measurement method	Standard Values	Adjusting positions
Difference between the forward and reverse speed	Test tape : VT712 (3kHz) or TMT7036 (3kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 4Ω) Measurement output terminal : Headphone	When the test tape VT712 (3kHz) has been played back with the recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanism should be 6.0Hz or less.	6.0Hz or less	Head azimuth screw (See Fig. 34)
Wow & flutter	Test tape : VT712 (3kHz) or TMT7036 (3kHz) Measurement output terminal : Headphone terminal	When the test tape VT712 (3kHz) has been played back with the recording and playback mechanism at the beginning of forward winding, the frequency counter reading of wow & flutter should be 0.25% or less (WRMS).	0.25% or less (WRMS)	

■ Electrical Performance

Items	Measurement conditions	Measurement method	Standard Values	Adjusting positions
Adjustment of recording bias current (Reference Value)	・Mode: Forward or reverse mode ・Recording mode ・Test tape : AC-514 to TYPE Ⅱ and AC-225 to TYPE Ⅰ Measurement output terminal : Both recording and headphone terminals	① With the recording and playback mechanism, load the test tapes (AC-514 to TYPE Ⅱ and AC-225 to TYPE Ⅰ), and set the mechanism to the recording and pausing condition in advance. ② After connecting 100 Ω in series to the recorder head, measure the bias current with a valve voltmeter at both of the terminals. ③ After resetting the [PAUSE] mode, start recording. At this time, adjust VR31 for Lch and VR32 for Rch so that the recording bias current values become 4.0 μA (TYPE Ⅰ) and 4.20 μA (TYPE Ⅱ).	AC-225 : 4.20 μA AC-514 : 4.0 μA	L ch : VR31 R ch : VR32
Adjustment of recording and playback frequency characteristics	Reference frequency : 1kHz and 10kHz (REF.: -20dB) Test tape : AC-514 to TYPE Ⅱ Measurement input terminal : OSC IN	① With the recording and playback mechanism, load the test tapes (AC-514 to TYPE Ⅱ), and set the mechanism to the recording and pausing condition in advance. ② While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and playback the rape. ③ While recording and playback the test tape in TYPE Ⅱ, adjust VR31 for Lch and VR32 for Rch so that the output deviation between 1kHz and 10kHz becomes -1dB±2dB.	Output deviation between 1kHz and 10kHz : -1dB±2dB	L ch : VR31 R ch : VR32

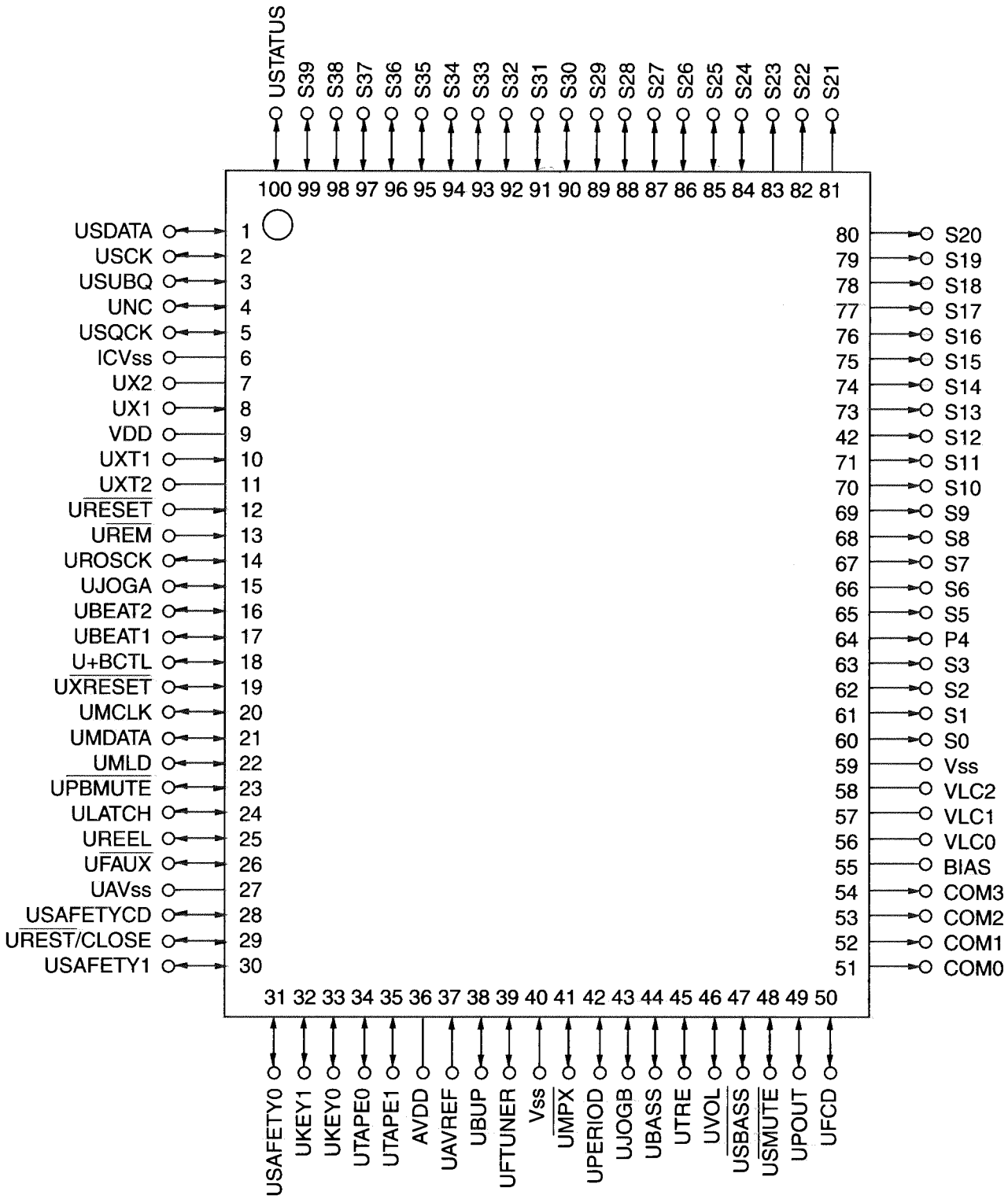
■ Reference Values for Electrical Function Confirmation Items

Items	Measurement conditions	Measurement method	Standard Values	Adjusting positions
Recording bias frequency	Forward or reverse ・Test tape : TYPE Ⅱ (AC-514) ・Measurement terminal : BIAS TP on P.C. board	① While changing over to and from BIAS 1 and 2, confirm that the frequency is changed. ② With the recording and playback mechanism, load the test tape. (AC-514 to TYPE Ⅱ), and set the mechanism to the recording and pausing condition in advance. ③ Confirm that the BIAS TP frequency on the P.C. board is 100kHz ± 6kHz.	100 kHz ±6 kHz	
Eraser current (Reference value)	Forward or reverse ・Recording mode ・Test tape : AC-514 to TYPE Ⅱ and AC-225 to TYPE Ⅰ Measurement terminal : Both of the eraser head terminals	① While recording and playback mechanism, load the test tapes (AC-514 to TYPE Ⅱ and AC-225 to TYPE Ⅰ), and set the mechanism to the recording and pausing conditions in advance. ② After setting to the recording conditions, connect 1W in series to the eraser head on the recording and playback mechanism side, and measure the eraser current from both of the eraser terminals.	TYPE Ⅱ : 120 mA TYPE Ⅰ : 75 mA	

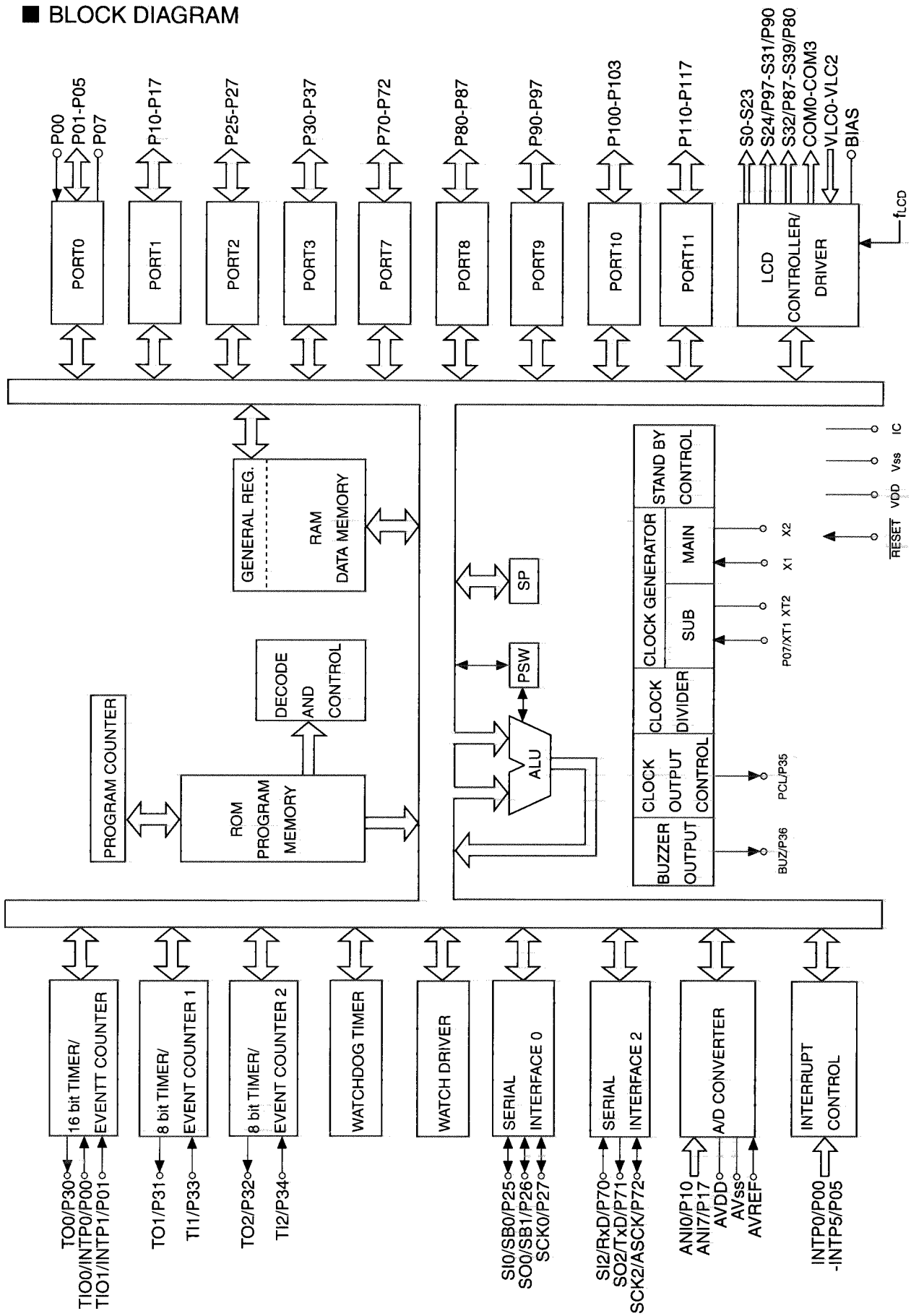
Out Line of Main ICs

■ UPD78064GF-108 (IC701) : SYSTEM CONTROL CPU

1. Pin Layout



■ BLOCK DIAGRAM

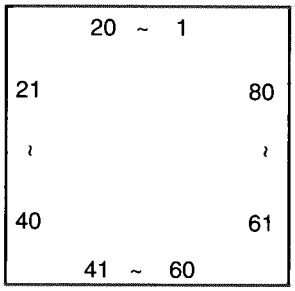


pin no	Symbol	I/O	Function
1	USDATA	I/O	Serial data of Tuner PLL / Tape IC
2	USCK	O	Serial clock of Tuner PLL / Tape IC
3	USUBQ	I	CD Q code data
4	UNC	--	No use
5	USQCK	O	CD Q code clock data
6	ICVss	--	GND
7	UX2	--	Main system clock
8	UX1	I	Main system clock
9	VDD	--	Power supply
10	UXT1	I	Sub system clock
11	UXT2	--	Sub system clock
12	URESET	I	Reset
13	UREM	I	Remote control
14	URDSCK	O	Serial clock of RDS
15	UJOGA	I	JOG encorder A
16	UBEAT2	O	Main clock select 2
17	UBEAT1	O	Main clock select 1
18	U+BCTL	O	SV control by switch
19	UXRESET	O	CD LSI reset
20	UMCLK	O	CD LSI command clock
21	UMDATA	O	CD LSI command data
22	UMLD	O	CD LSI command dummy
23	UPBMUTE	O	Mute of Tape playback
24	ULATCH	O	Tape IC strobo
25	UREEL	I	Tape end dedect.
26	UFAUX	O	Fucntion AUX
27	UAVss	--	AD converter GND
28	USAFETYCD	I	CD trable voltage detect.
29	URESET/CLOSE	I	[RESET/CLOSE] Switch
30	USAFETY1	I	Trable voltage detect.
31	USAFETY0	I	Trable voltage detect.
32	UKEY1	I	Main key input 1
33	UKEY0	I	Main key input 0
34	UTAPE0	I	Tape switch 2
35	UTAPE1	I	Tape switch 1
36	AVDD	--	AD converter power supply of same voltage as VDD
37	UAVREF	--	AD converter standard voltage
38	UBUP	I	Judgement of back-up power supply
39	UFTUNER	O	Function Tuner
40	Vss	--	GND
41	UMPX	I	FM MPX detect.
42	UPERIOD	O	Tuner PLL strobo
43	UJOGB	I	JOG B encorder
44	UBASS	O	BASS control
45	UTRE	O	Tre. control
46	UVOL	O	Vol. control
47	USBASS	O	BASS control
48	USMUTE	O	System mute
49	UPOUT	O	Power ON / OFF
50	UFCD	O	Function CD

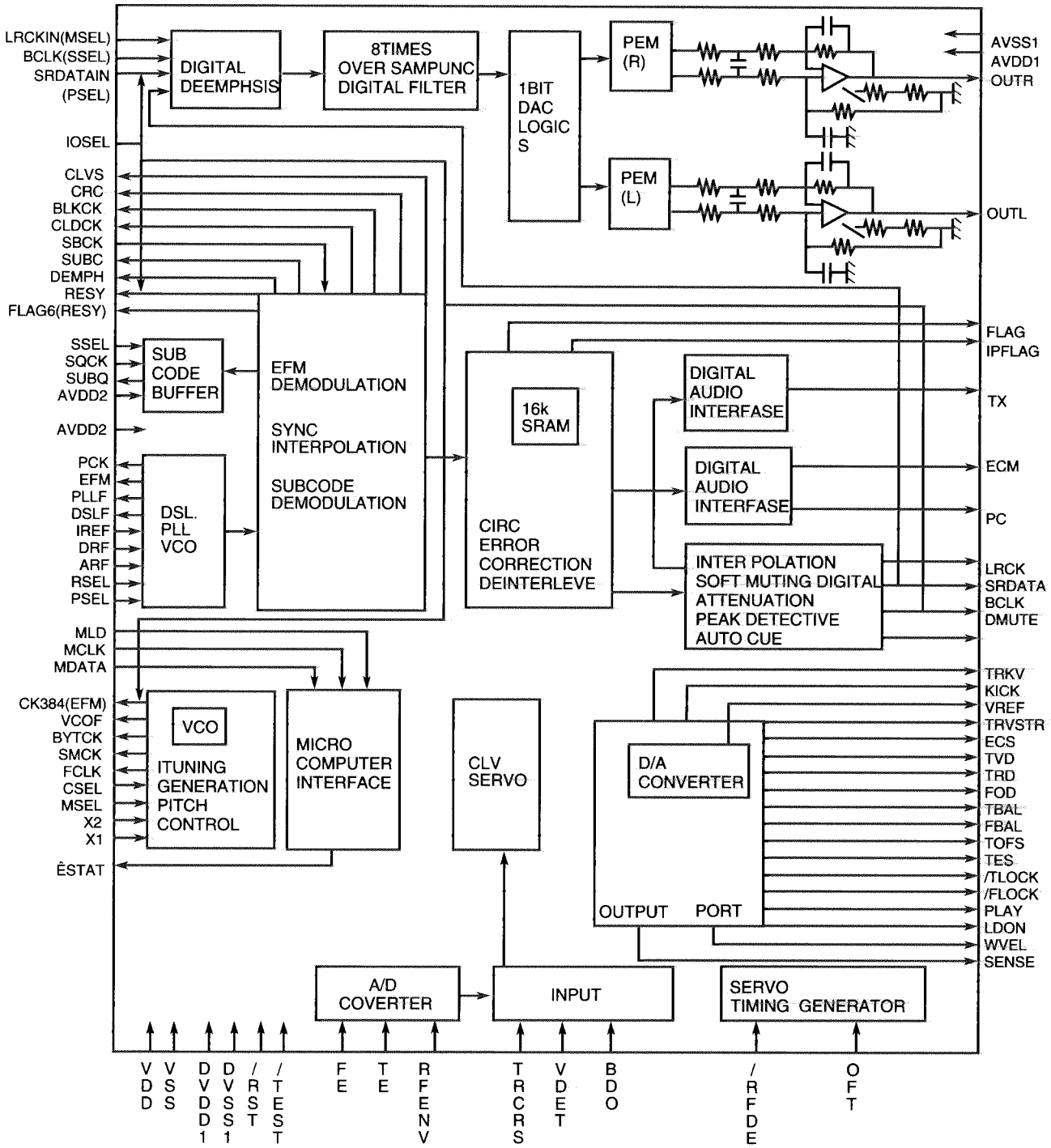
pin no	Symbol	I/O	Function
51	COM0	O	LCD common 0
52	COM1	O	LCD common 1
53	COM2	O	LCD common 2
54	COM3	O	LCD common 3
55	BIAS	--	LCD Bias
56	VLC0	--	LCD Bias Bias > VLC0 > VLC1 > VLC2
57	VLC1	--	LCD Bias
58	VLC2	--	LCD Bias
59	Vss	--	GND
60	S0	O	To LCD segment 0
61	S1	O	To LCD segment 1
62	S2	O	To LCD segment 2
63	S3	O	To LCD segment 3
64	S4	O	To LCD segment 4
65	S5	O	To LCD segment 5
66	S6	O	To LCD segment 6
67	S7	O	To LCD segment 7
68	S8	O	To LCD segment 8
69	S9	O	To LCD segment 9
70	S10	O	To LCD segment 10
71	S11	O	To LCD segment 11
72	S12	O	To LCD segment 12
73	S13	O	To LCD segment 13
74	S14	O	To LCD segment 14
75	S15	O	To LCD segment 15
76	S16	O	To LCD segment 16
77	S17	O	To LCD segment 17
78	S18	O	To LCD segment 18
79	S19	O	To LCD segment 19
80	S20	O	To LCD segment 20
81	S21	O	To LCD segment 21
82	S22	O	To LCD segment 22
83	S23	O	To LCD segment 23
84	S24	O	To LCD segment 24
85	S25	O	To LCD segment 25
86	S26	O	To LCD segment 26
87	S27	O	To LCD segment 27
88	S28	O	To LCD segment 28
89	S29	O	To LCD segment 29
90	S30	O	To LCD segment 30
91	S31	O	To LCD segment 31
92	S32	O	To LCD segment 32
93	S33	O	To LCD segment 33
94	S34	O	To LCD segment 34
95	S35	O	To LCD segment 35
96	S36	O	To LCD segment 36
97	S37	O	To LCD segment 37
98	S38	O	To LCD segment 38
99	S39	O	To LCD segment 39
100	USTATUS	I	CD LSI status

■ MN35510(IC603):DIGITAL SERVO&DIGITAL SIGNAL PROCESSER

1. Terminal Layout



2.Block Diagram

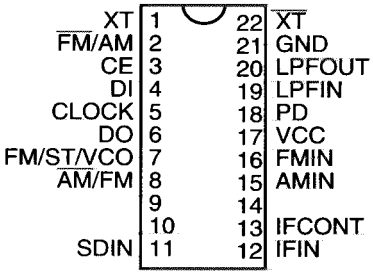


3. Description

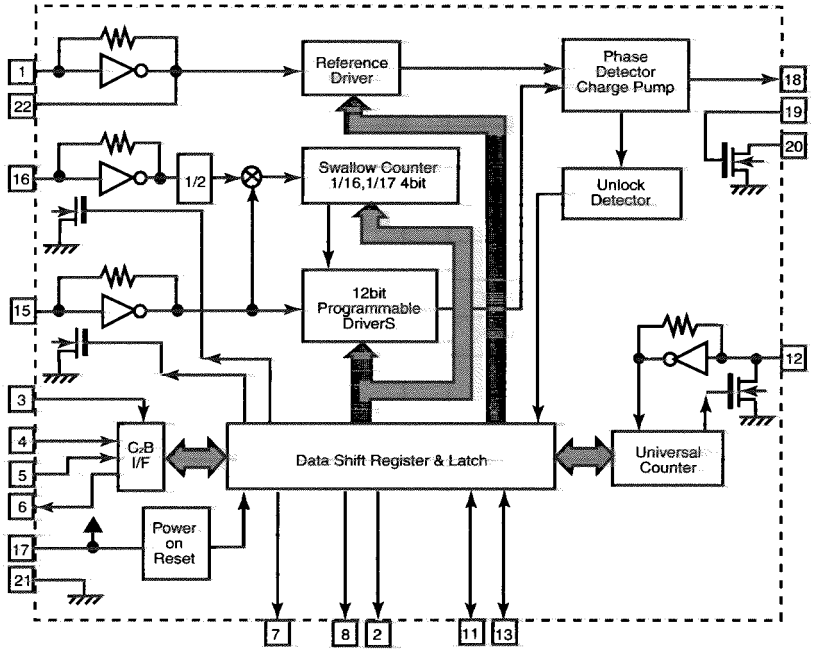
Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output(H:shunt)
2	LRCK	O	Not used	42	PLAY	–	Not used
3	SRDATA	O	Not used	43	WVEL	–	Not used
4	DVDD1	–	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	–	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	μ com command clock signal input (Data is latched at signal's rising point)	47	DSLF	I/O	Loop filter pin for DSL
8	MDATA	I	μ com command data input	48	PLLF	I/O	Loop filter pin for PLL
9	MLD	I	μ com command load signal input	49	VCOF	–	Not used
10	SENSE	O	Sence signal output	50	AVDD2	–	Power supply(Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	–	Connected to GND(Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	–	Not used
13	BLKCK	O	sub-code·block·clock signal output	53	PCK	–	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	–	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	–	Not used
16	DMUTE	–	Connected to GND	56	SBCK	–	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	–	Connected to GND(for X'tal cscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	–	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	–	Not used	60	VDD	–	Power supply(for X'tal cscillationcircuit)
21	TRV	O	Traverse enforced output	61	BYTCK	–	Not used
22	TVD	O	Traverse drive output	62	CLDCK	–	Not used
23	PC	–	Not used	63	FLAG	–	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	–	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	–	Not used
26	KICK	O	Kick pulse output	66	CLVS	–	Not used
27	TRD	O	Tracking drive output	67	CRC	–	Not used
28	FOD	O	Focus drive output	68	DEMPH		Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	–	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	–	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	–	pull up
32	FE	I	Focus error signal input(Analog input)	72	AVDD1	–	Power supply(Digital)
33	TE	I	Tracking error signal input(Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input(Analog input)	74	AVSS1	–	Connected to GND
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input(H:off track)	76	RSEL	–	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	–	Connected to GND
38	RFDET	I	RF detect signal input(L:detect)	78	PSEL	–	Connected to GND
39	BDO	I	BDO input pin(L:detect)	79	MSEL	–	Connected to GND
40	LDON	O	Laser ON signal output(H:on)	80	SSEL	–	Pull up

■ LC72136N(IC2):PLL Frequency sinsesizer L S I

1. Layout



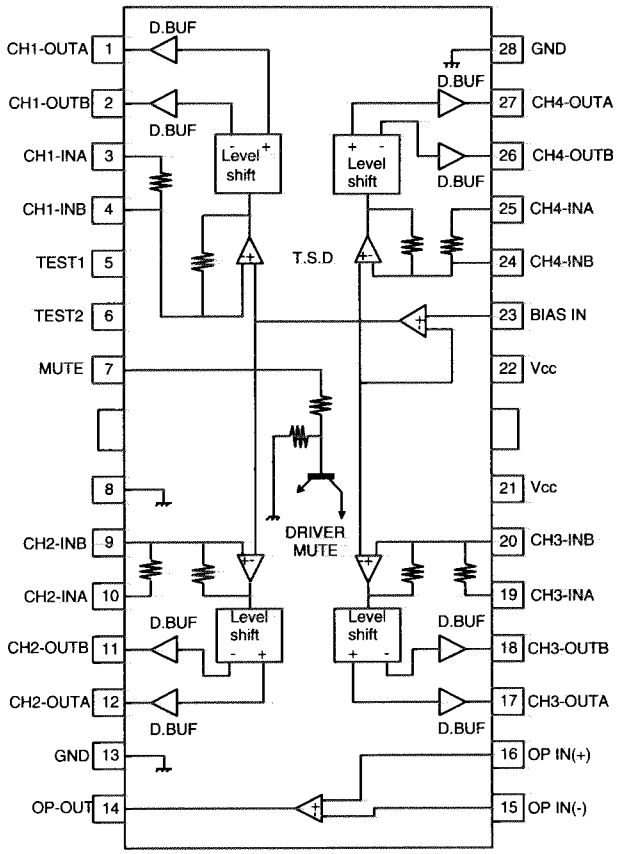
2. Block



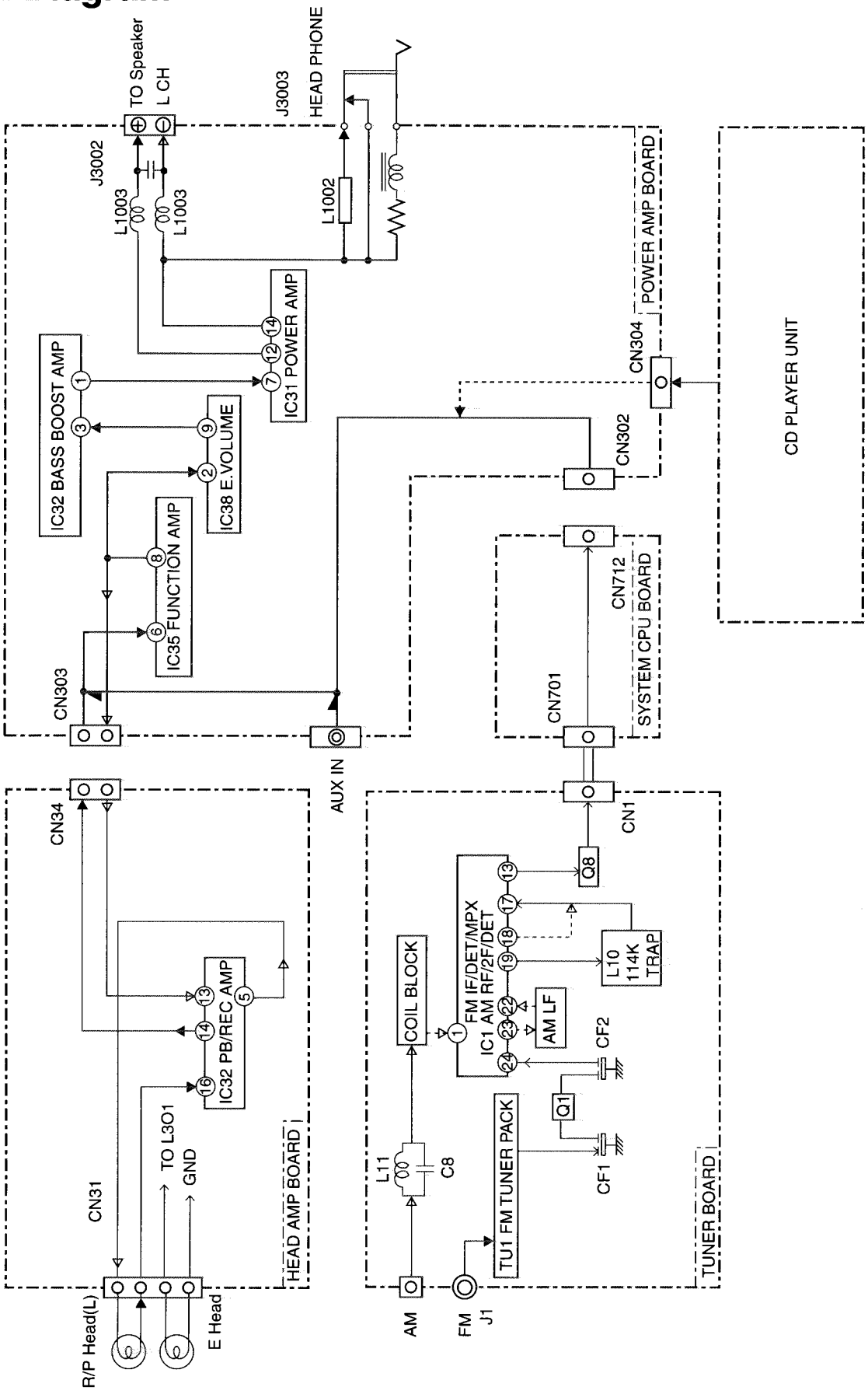
3. Function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75KHz)	12	IFIN	I	IF counter signal input
2	$\overline{FM}$/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the sirisl data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suplly(VDD=4.5~5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	$\overline{AM}$/FM	O	Not use	19	LPFIN	I	Input for active lowpassfilter of PLL
9		-	Not use	20	LPFOUT	O	Output for active lowpassfilter of PLL
10		-	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	$\overline{XT}$	I	X'tal oscillator(75KHz)

■ BA6897FP(IC0602) 4channel driver



Block Diagram



Wiring Condition

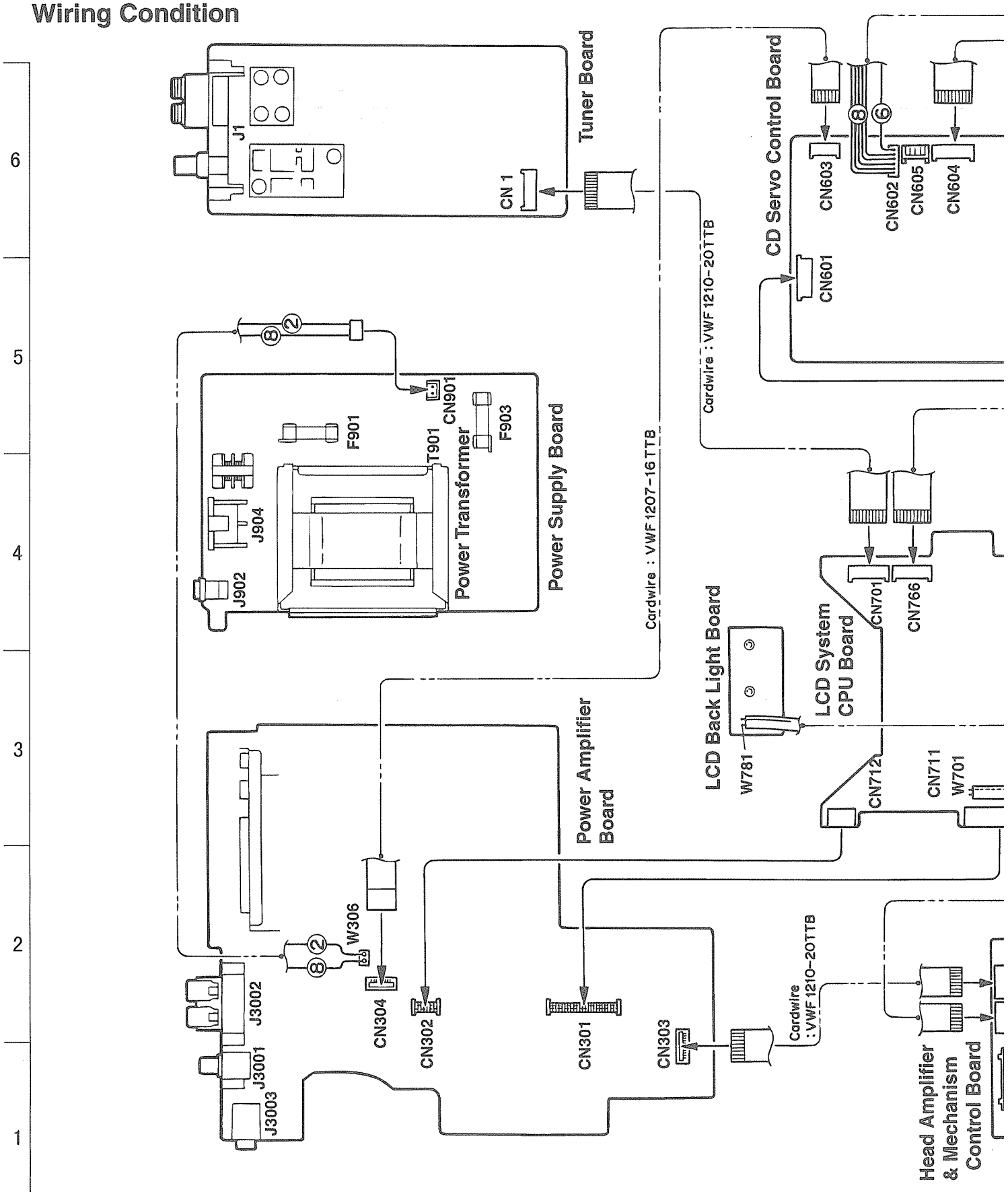
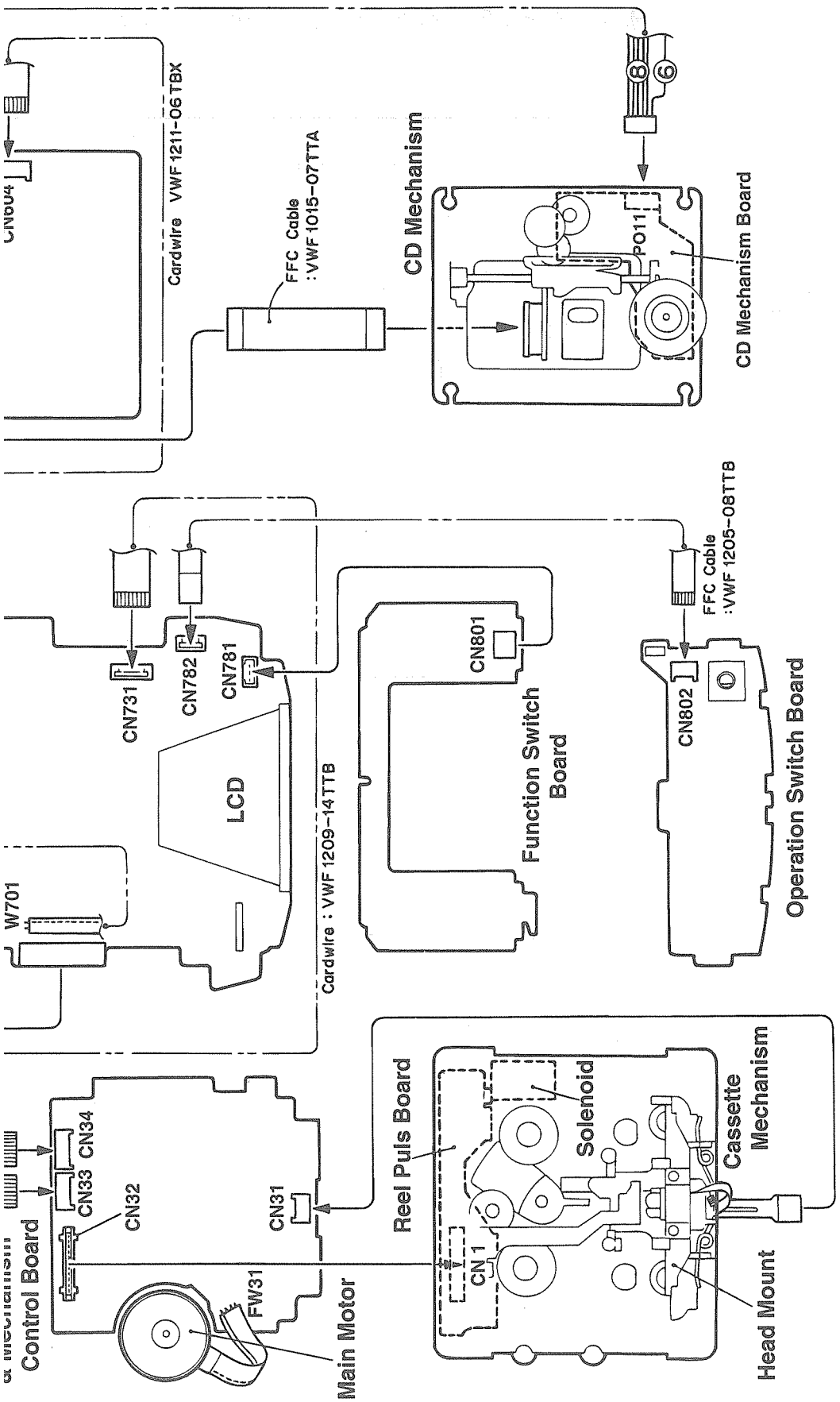
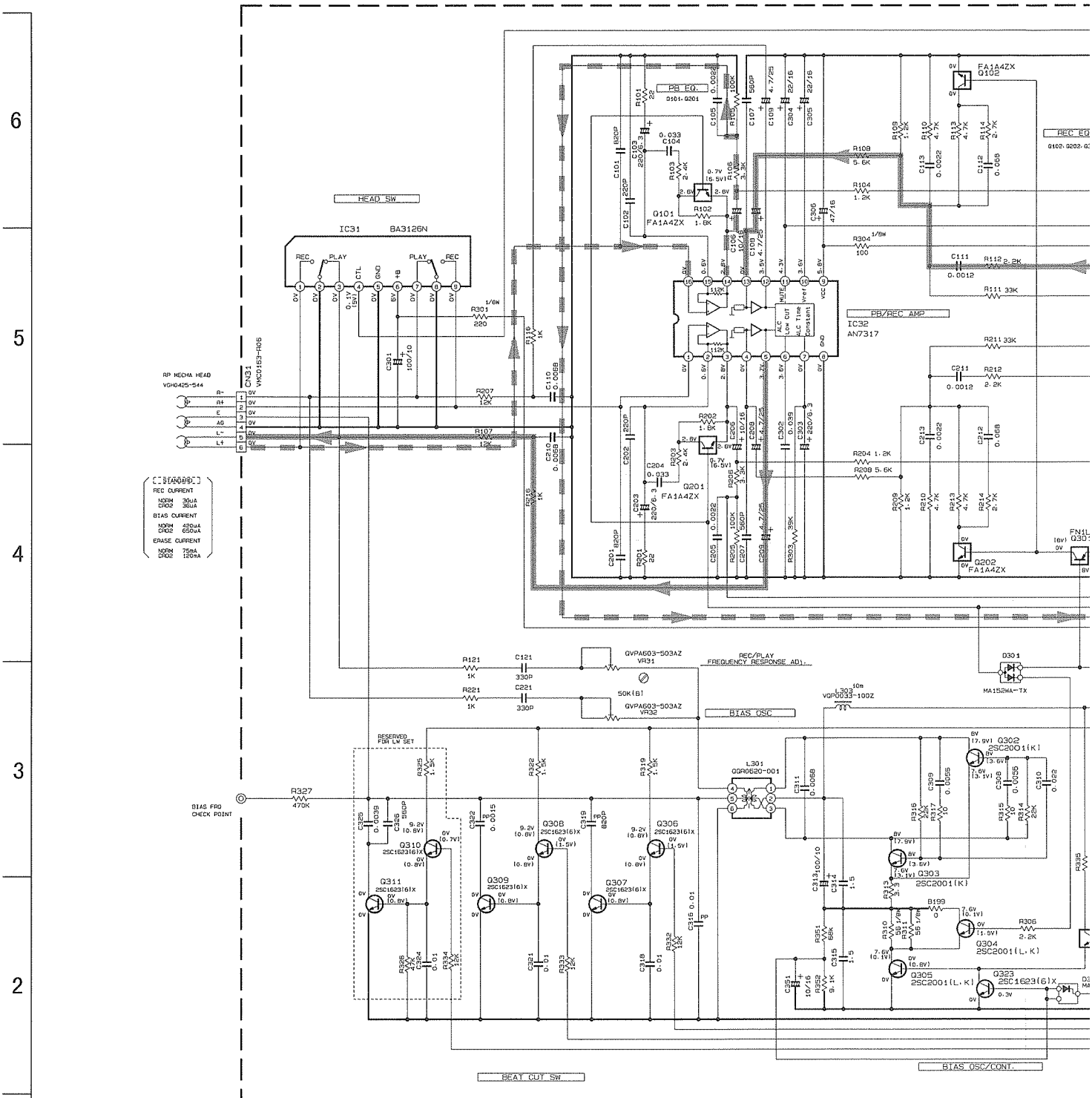


Fig. 37


Color codes are shown below.
1 Brown
2 Red
3 Orange
4 Yellow
5 Green
6 Blue
7 Violet
8 Gray
9 White
0 Black
D Pink
C Light Blue
CN004
Cardwire VWF1211-06TBX
FFC Cable :VWF1015-07TTA
CD Mechanism
PO11
CD Mechanism Board
FFC Cable :VWF1205-08TTB
CN731
CN782
CN781
CN801
CN802
LCD
Function Switch Board
Operation Switch Board
W701
Cardwire : VWF1209-14TTB
CN34
CN33
CN32
CN31
Control Board
FW31
Main Motor
Reel Puls Board
CN1
Solenoid
Cassette Mechanism
Head Mount

Schecmatic Diagrams

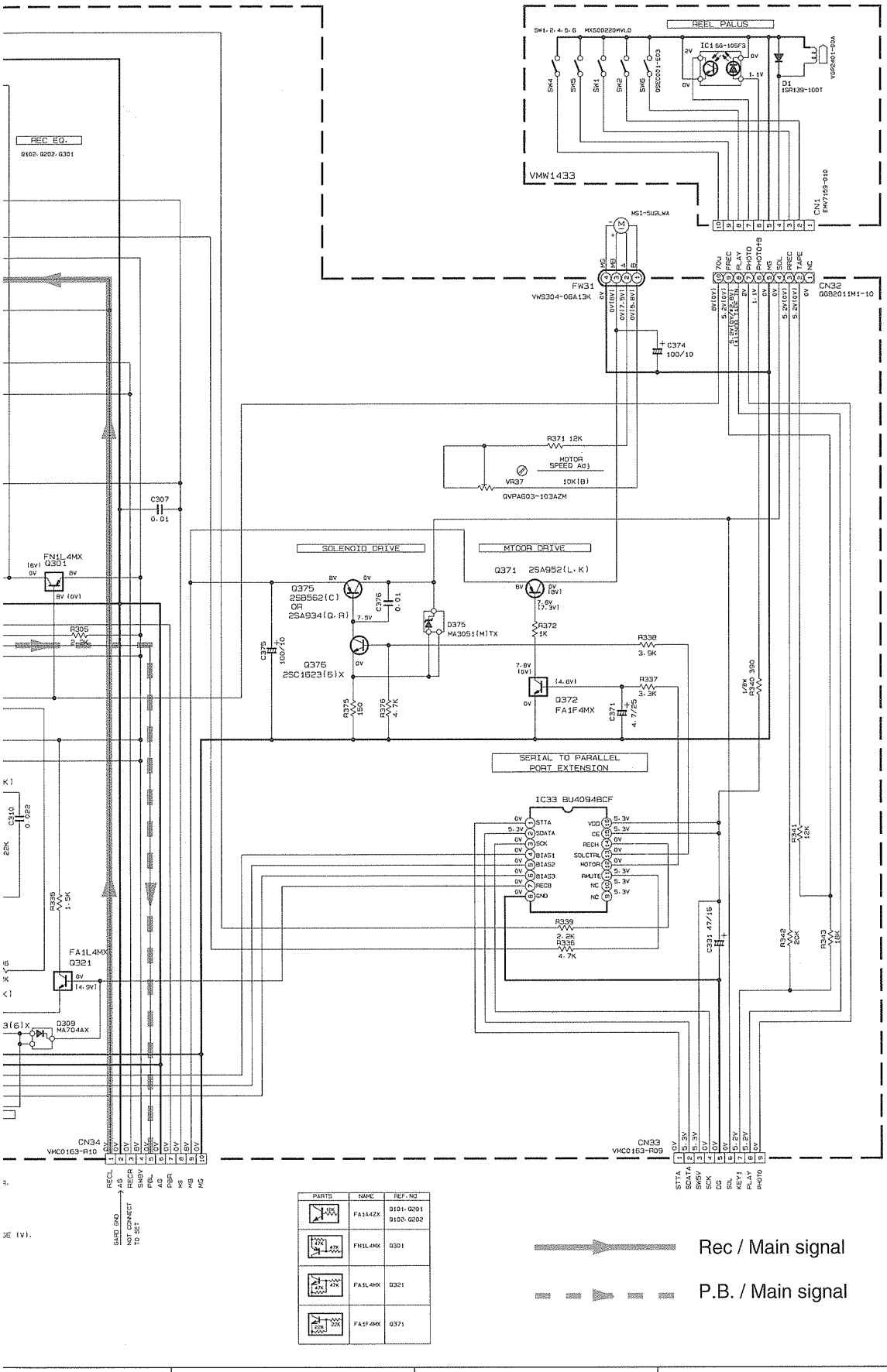
Head Amp & Mechanism Control Section



NOTES

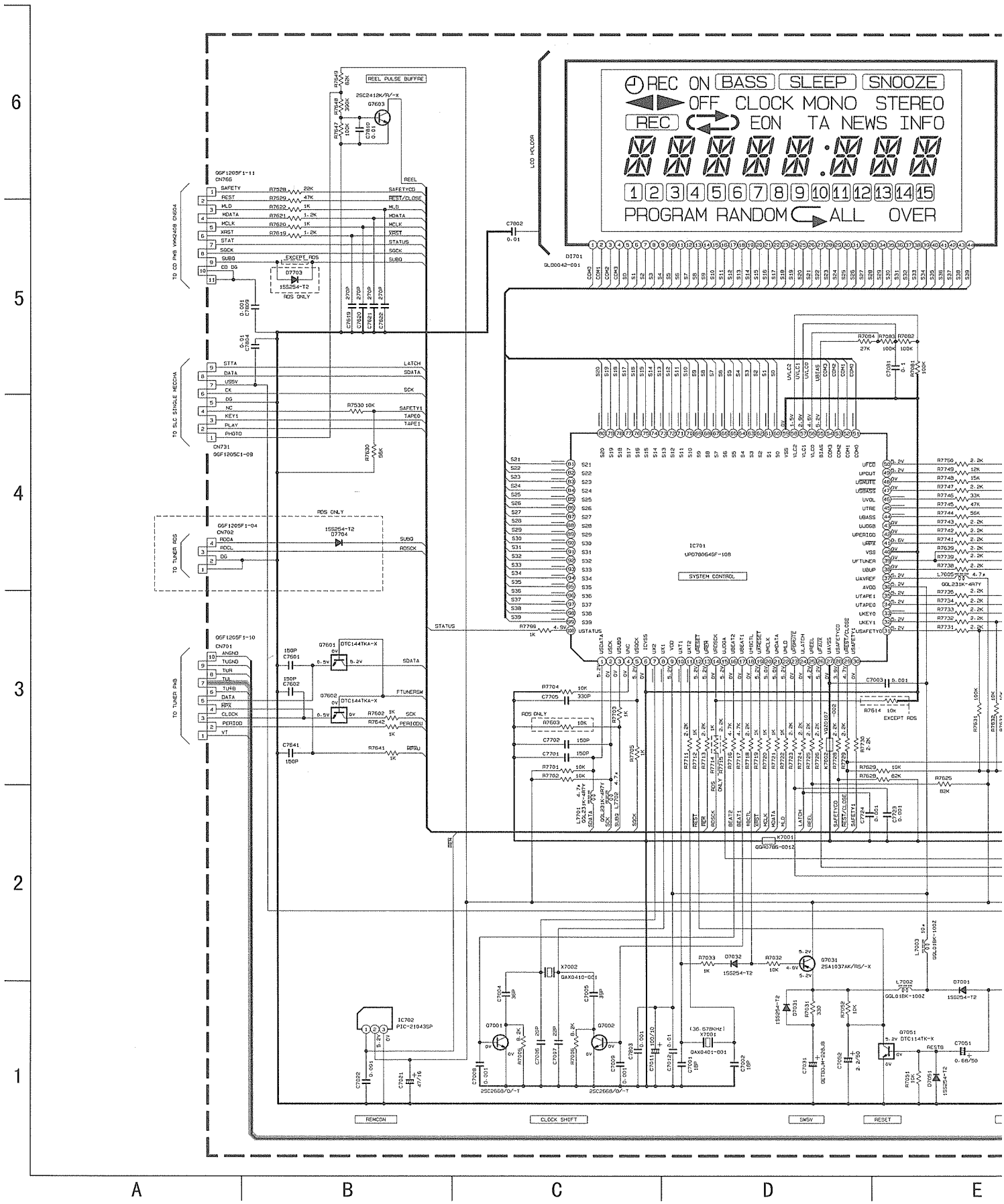
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION : MECHA STOP MODE

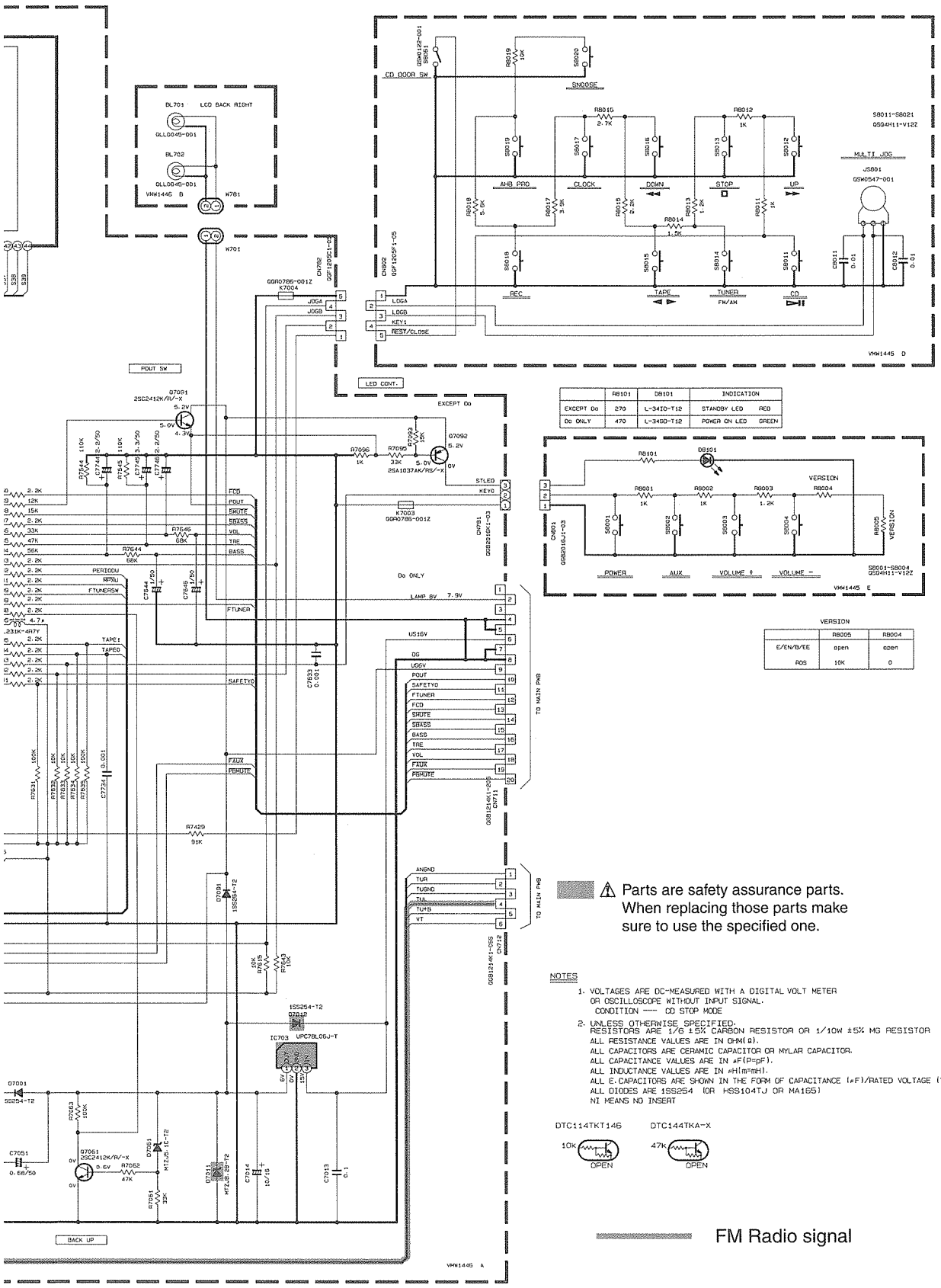
2. UNLESS OTHERWISE SPECIFIED · RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
PP POLYPROPYLENE CAPACITOR



PARTS	NAME	REF. NO
	FA1A4ZX	Q101, Q201 Q103, Q203
	FN1L4MX	Q301
	FA1L4MX	Q321
	FA1F4MX	Q371

LCD System & CPU Section





	RB101	DB101	INDICATION	
EXCEPT Do	270	L-341O-T12	STANDBY LED	RED
Do ONLY	470	L-345O-T12	POWER ON LED	GREEN

VERSION	RB005	RB004
E/EN/B/EE	open	open
ROS	10K	0

⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

NOTES

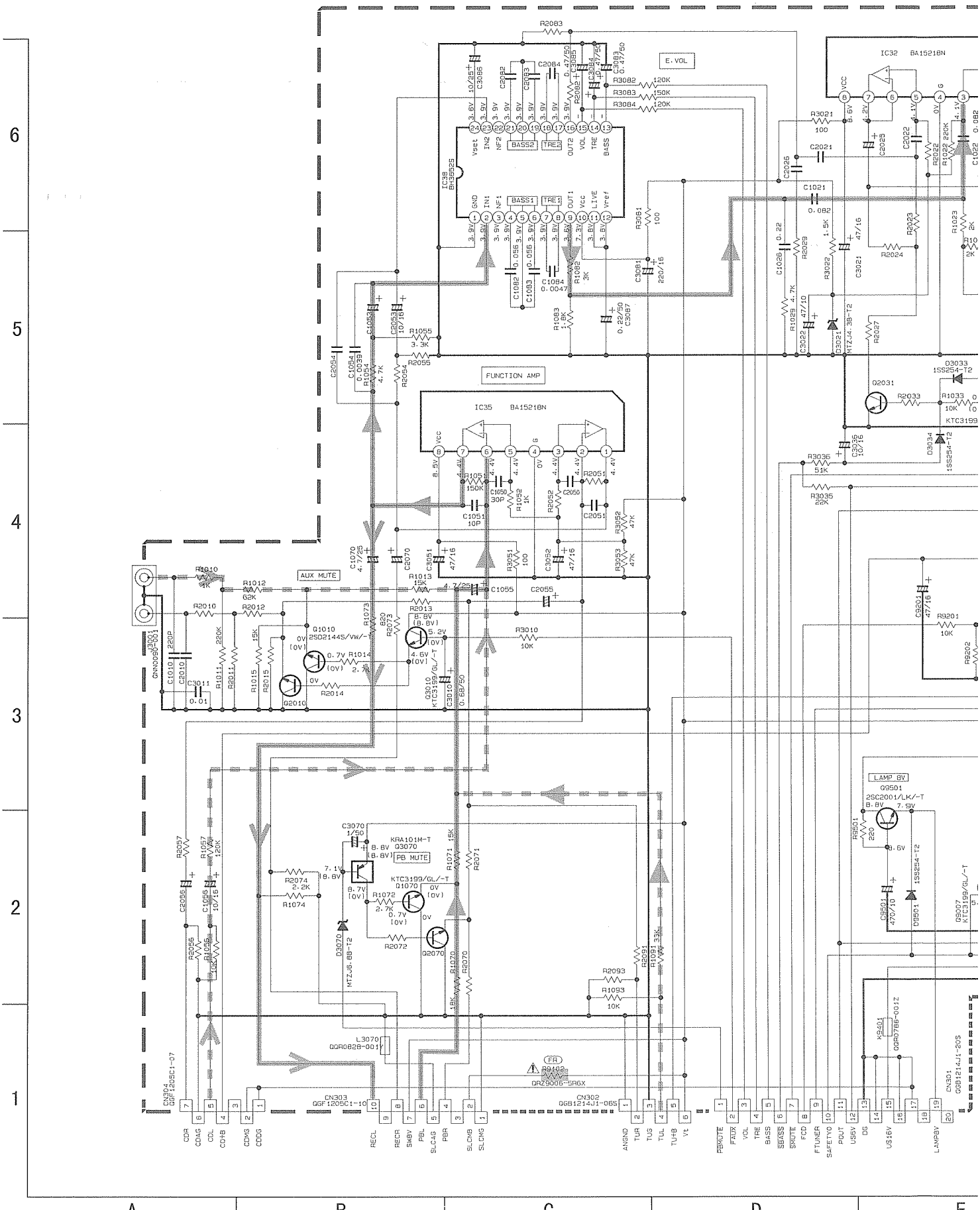
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE
2. UNLESS OTHERWISE SPECIFIED.
   RESISTORS ARE 1/6 ±5% CARBON RESISTOR OR 1/10W ±5% MG RESISTOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254 (OR HSS104TJ OR MA165)
   NI MEANS NO INSERT

DTC114TKT146 — 10k — OPEN

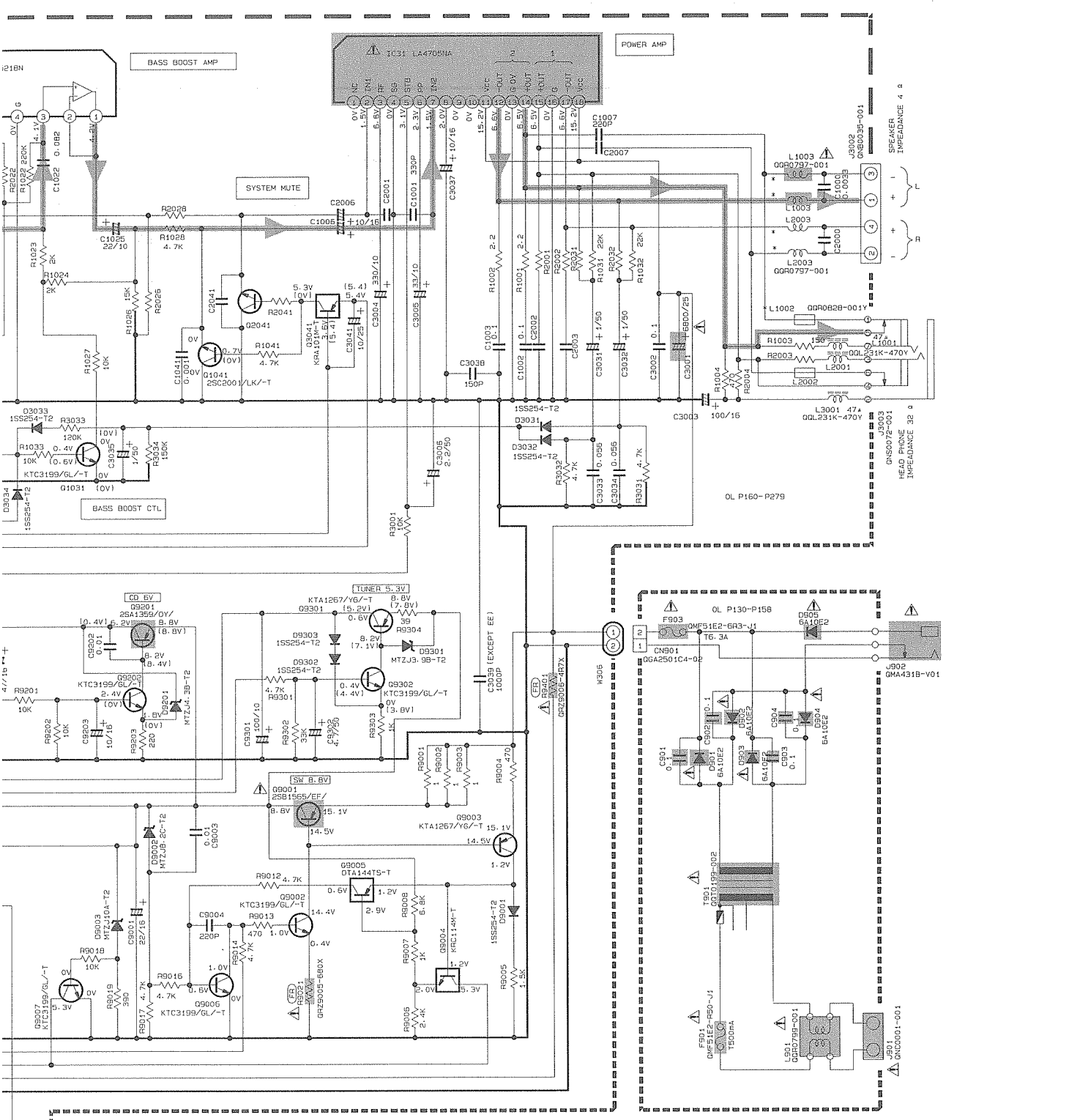
DTC144TKA-X — 47k — OPEN

FM Radio signal

Amp Section

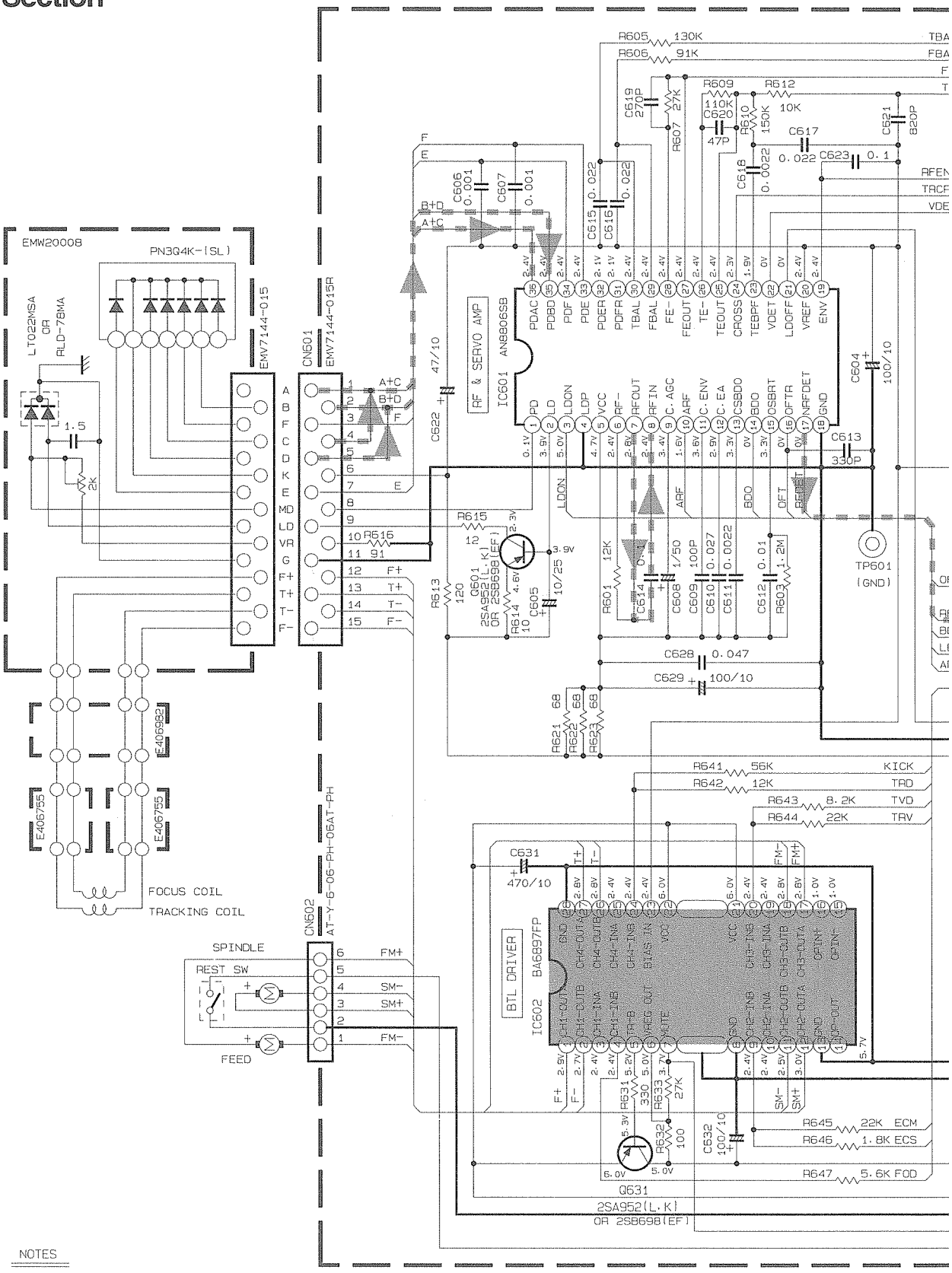

E. VOL
IC32 BA1521BN
IC39 BH3552S
FUNCTION AMP
IC35 BA15218N
AUX MUTE
PB MUTE
LAMP_8V
Q1010 2SD2144S/VW/-T
Q2010
Q3010 KTC3199/GL/-T
Q3070 KRA101M-T
Q1070 KTC3199/GL/-T
Q2070
Q2031
Q9501 2SC2001/LK/-T
D3070 MTZJ6.8B-T2
D3021 MTZJ4.3B-T2
D3033 1SS254-T2
D3034 1SS254-T2
D9501 1SS254-T2
L3070 GQR0828-001
CN304 GGF1205C1-07
CN303 GGF1205C1-10
CN302 GGB1214J1-06S
CN301 GGB1214J1-20S
K9401 GQR07B6-001Z
CDR CDAG CDL CDHB CDMG CDDG
RECL RECR SWBV PBL SLCAG PBR SLCHB SLCMG
ANGND TUR TUG TUL TUHB Vt
PBMUTE FAUX VOL TRE BASS SBASS SMUTE FCD FTUNER SAFETYG PGUT US6V DG UG16V LAMP8V

UX-T300R


BASS BOOST AMP
IC31 LA4705NA
POWER AMP
SYSTEM MUTE
BASS BOOST CTL
TUNER 5.3V
CD 6V
SW 8.8V
OL P160-P279
OL P130-P158
SPEAKER IMPEADANCE 4 Ω
HEAD PHONE IMPEADANCE 32 Ω
CN901 QGA2501C4-02
J902 QMA431B-V01
J501 QNC0001-003
CN301 QGB1214J-20S
W306
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
2. UNLESS OTHERWISE SPECIFIED . RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES(Dev.Name:1N4148M-T2) ARE 1N4148M-T2 OR 1SS254T-77
KRC114M-T
KRA101M-T
DTA144TSTP
Tape P.B. signal
Tape Rec. signal
FM Radio signal
CD / AUX signal
Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

E | F | G | H | I

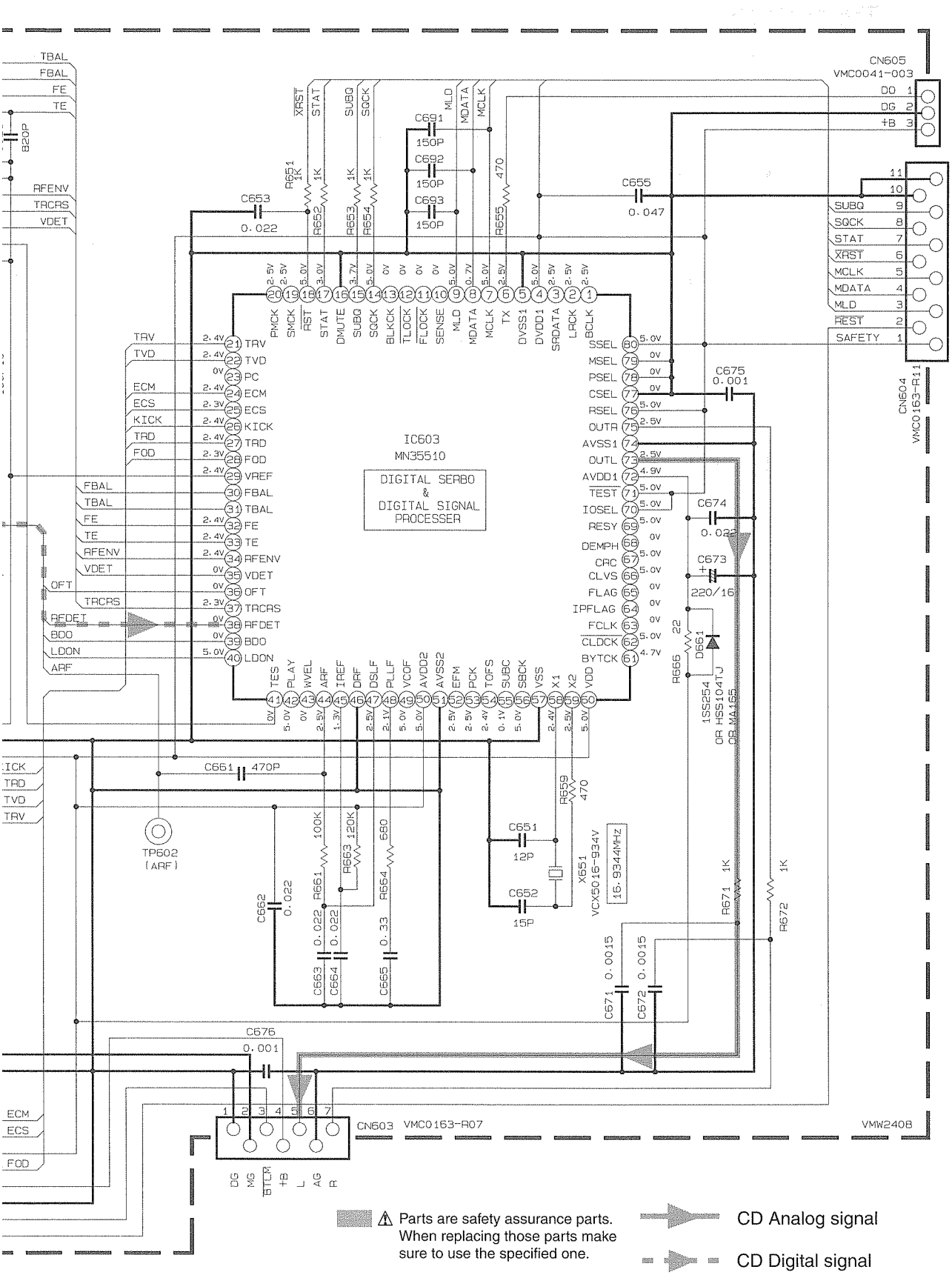
CD Section



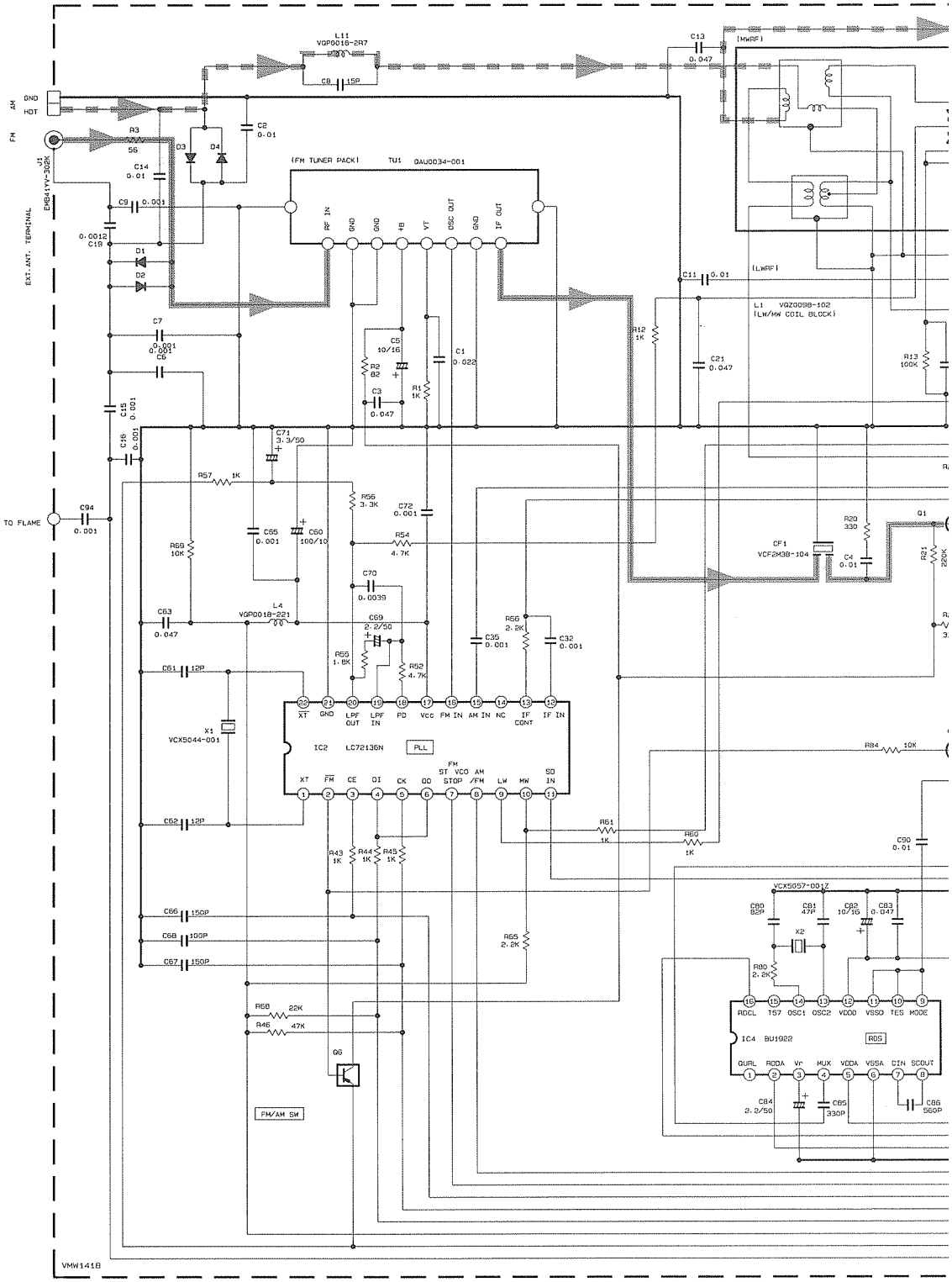
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).


IC603
MN35510
DIGITAL SERBO
&
DIGITAL SIGNAL
PROCESSER
CN605
VMC0041-003
CN604
VMC0163-R11
CN603
VMC0163-R07
VMW2408
X651
VCX5016-934V
16.9344MHz
TP502
(ARF)
D661
1S254
OR HS104TJ
OR MA165
C653 0.022
C655 0.047
C675 0.001
C674 0.022
C673 220/16
C661 470P
C651 12P
C652 15P
C662 0.022
C663 0.022
C664 0.022
C665 0.33
C671 0.0015
C672 0.0015
C676 0.001
R651 1K
R652 1K
R653 1K
R654 1K
R655 470
R659 470
R661 100K
R663 120K
R664 680
R665 22
R671 1K
R672 1K
C691 150P
C692 150P
C693 150P
TBAL
FBAL
FE
TE
820P
RFENV
TRCRS
VDET
OFT
RFDET
BDO
LDON
ARF
TRV
TVD
PC
ECM
ECS
KICK
TRD
FOD
VREF
SUBQ
SQCK
STAT
XRST
MCLK
MDATA
MLD
REST
SAFETY
DO
DG
+B
BTLM
L
AG
R
⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.
CD Analog signal
CD Digital signal

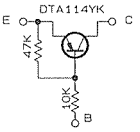
Tuner Section



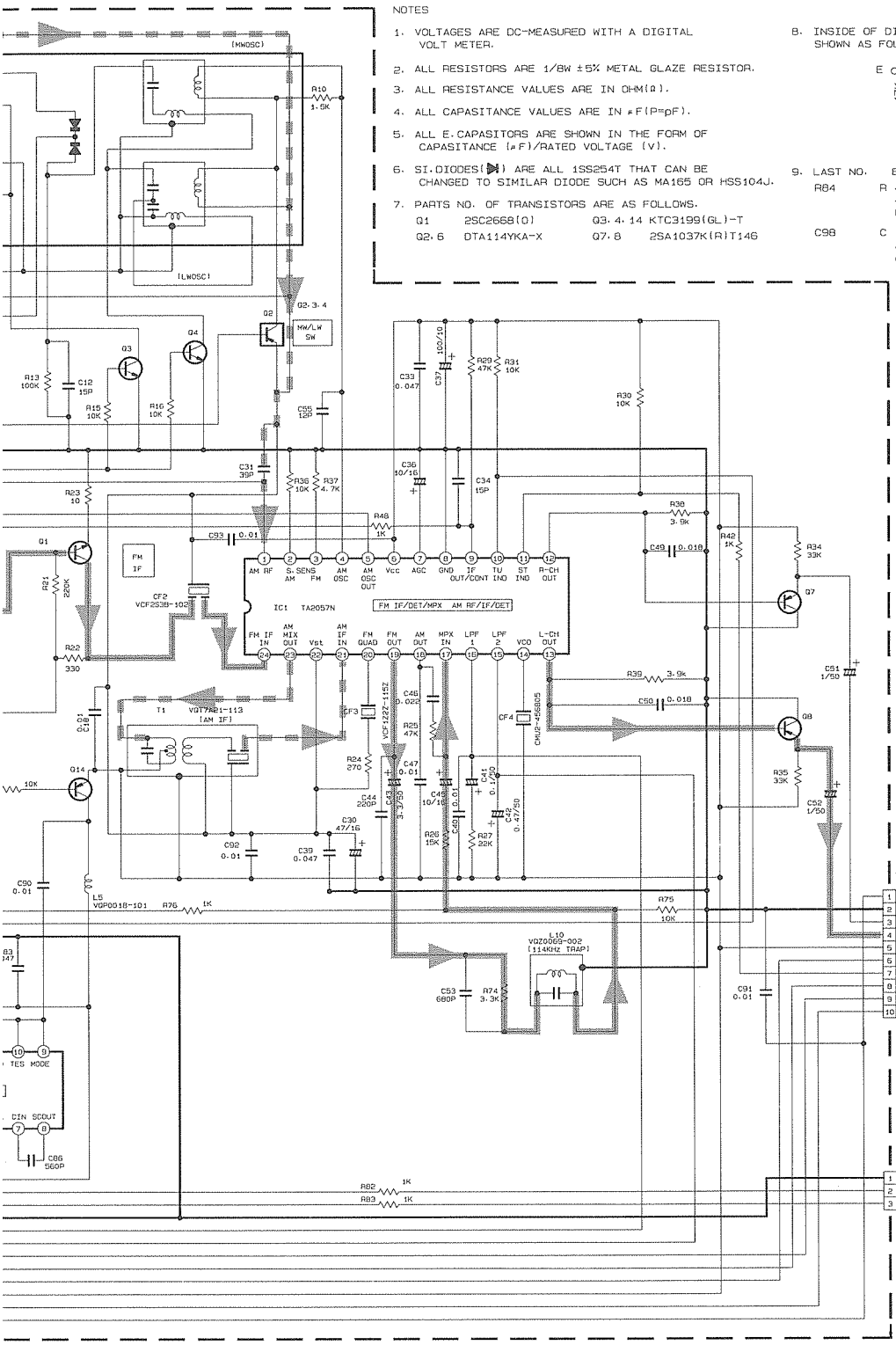
	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	5.0	5.1	3.7	3.7	2.0	3.8	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7		
IC4	FM NO SIGNAL	2.0	2.5	2.5	2.5	5.0	0	2.5	2.5	0	0	0	5.0	2.4	2.4	2.5	2.5								

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES( ) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
   Q1 2SC2668(O) Q3.4.14 KTC3199(GL)-T
   Q2.6 DTA114YKA-X Q7.8 2SA1037K(R)T146
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



9. LAST NO. BLANK NO.
   R84 R 4~9. 11. 14. 17~19. 28. 32. 33 40. 41. 47. 49~51. 53. 58. 59 62~64. 67. 70~73. 77~79. 81
   C98 C 10. 17. 20. 22~29. 38 48. 54. 55~59. 64. 73~79. 87~89 95~97



Tr NO.	Q1			Q5			Q7			Q8			Q14		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1	5.1	5.1	4.5
AM 522KHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1	5.1	0.1	8.7

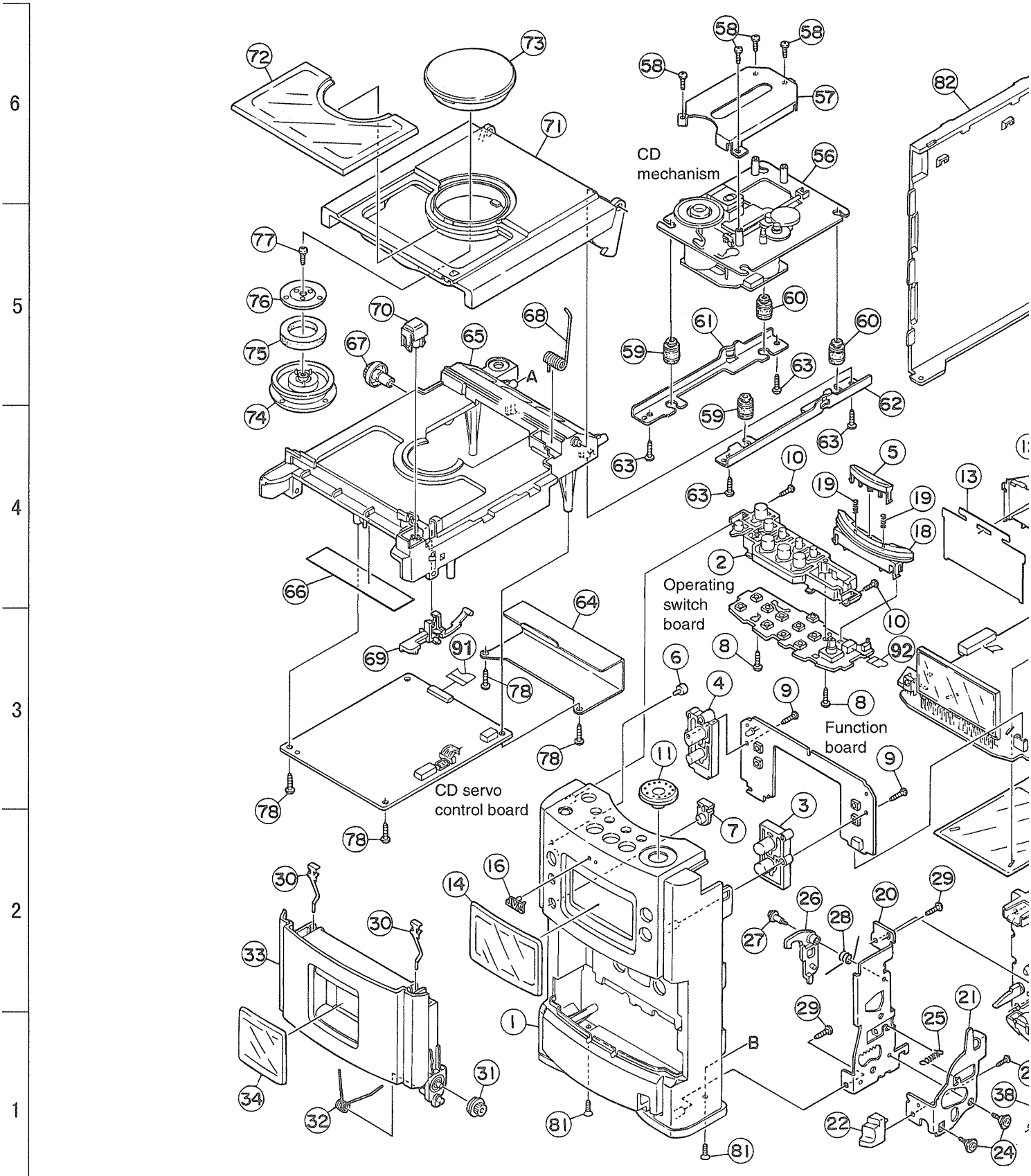
Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
AM 144KHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

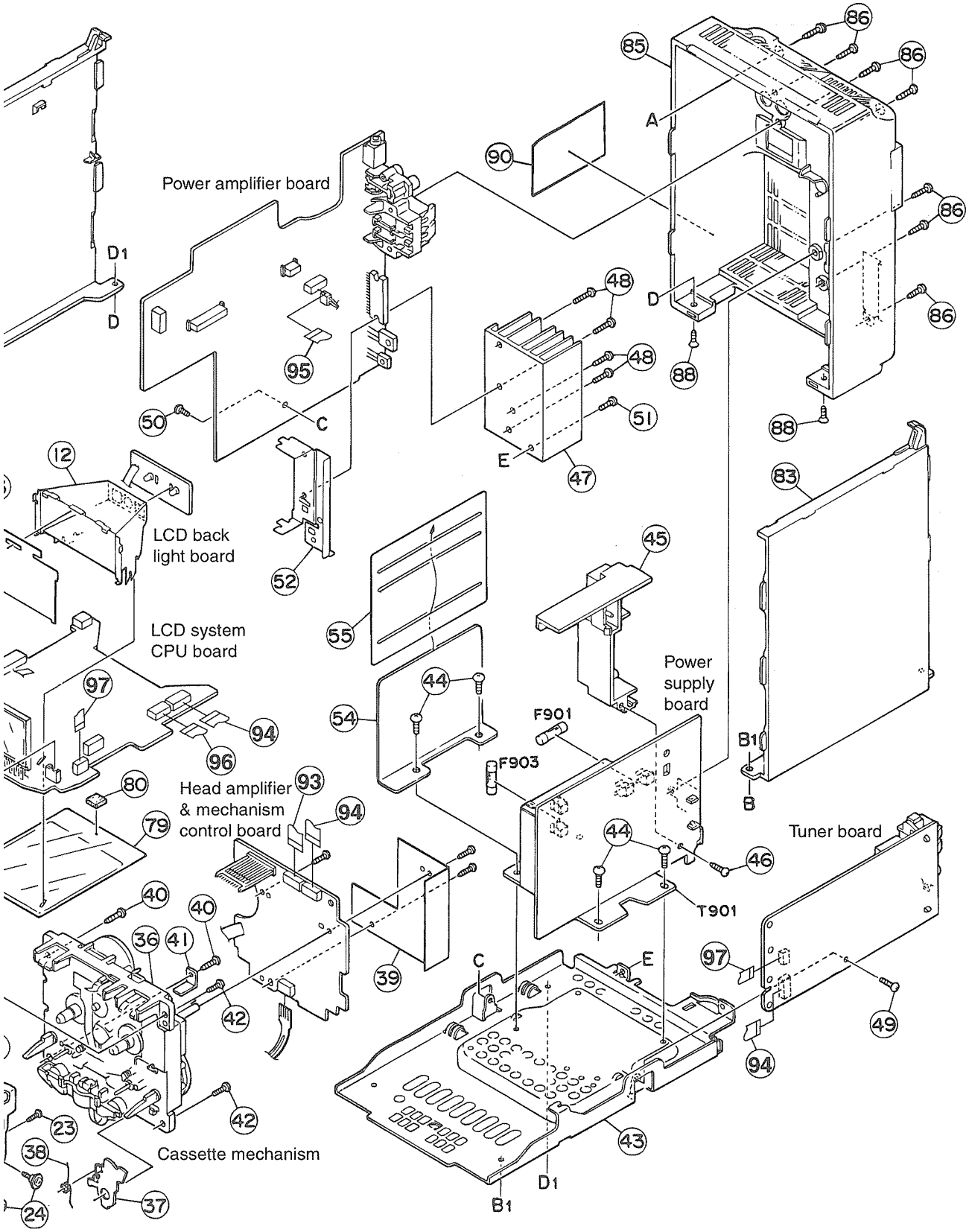
FM Radio signal

AM Radio signal

E F G H I

Analytic Drawing and Parts List ■Enolosure Assembly Parts : Block No. M1




Power amplifier board
LCD back light board
LCD system CPU board
Head amplifier & mechanism control board
Cassette mechanism
Power supply board
Tuner board
F901
F903
T901
A
B
B1
C
D
D1
E

E	F	G	H	I

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VJG1473-015	FRONT PANEL		1		
	2	VXP3867-002	PUSH BUTTON(A)		1		
	3	VXP5352-002	PUSH BUTTON(B)		1		
	4	VXP5353-002	PUSH BUTTON(C)		1		
	5	VXP5358-002	SNOOZE BUTTON		1		
	6	VJK4493-001SC	LENS(STANDBY)		1		
	7	VJK4504-001	REMOCON LENS		1		
	8	SBSF3008Z	SCREW	BUTTON+PWB	2		
	9	SBSF2608Z	T.SCREW	FOR F.P+PWB	2		
	10	SBSF2608Z	T.SCREW²	FOR F.P+BUTTON	2		
	11	VXL4453-002	MULTI JOG DIAL		1		
	12	VYH3982-001	LAMP CASE		1		
	13	VYTT704-001	LCD FILTER	FOR LCD	1		
	14	VJT4241-002	LCD LENS		1		
	16	E406971-221	JVC MARK	GOLD	1		
	18	VYH8160-002	BUTTON COVER		1		
	19	VKW5306-001	COMP.SPRING		2		
	20	VYH3983-001	DOOR HOLDER		1		
	21	VYH8149-001	EJECT LEVER		1		
	22	VXQ4125-002	EJECT KNOB		1		
	23	SBSF2608Z	T.SCREW	FOR E.LVR+E.KNO	1		
	24	VKZ4323-002	SCREW	D.HOLDER+E.LEVE	2		
	25	VKW3002-274	TENSION SPRING	FOF E.LEVER	1		
	26	VYH7347-001	EJECT ARM		1		
	27	VKZ4341-001	SPECIAL SCREW	FOR EJECT ARM	1		
	28	VKW4938-001	TORTION SPRING	FOR EJECT ARM	1		
	29	SBSF3008Z	SCREW	F.P+D.HOLDER	2		
	30	VKY4180-001	CASSETTE SPRING		2		
	31	VYH5601-001	GEAR		1		
	32	VKW5295-001	DOOR SPRING		1		
	33	VJT2384-009	CASSETTE DOOR		1		
	34	VJT4242-002	DOOR LENS		1		
	36	----------	CASSETTE MECHA		1		
	37	VKL7850-203	EJECT SAFTY(R)		1		
	38	VKW5258-002	TORSION SPRING		1		
	39	VMA4723-001	SHIELD		1		
	40	SBSF3010Z	SCREW	F.PANEL+MECHA	2		
	41	VYH8183-001	BRACKET	FOR CASSETTE DO	1		
	42	SBST3008Z	TH TAP SCREW	DOOR HOL+MECHA	2		
	43	VYH1263-001	BOTTOM CHASSIS		1		
	44	SBST4006Z	SCREW	CHASSIS+TRANS	4		
	45	VYH3984-001	JACK HOLDER		1		
	46	SBSF3010Z	SCREW	PWB+JACK HOL	1		
	47	VYH8153-001	RADIATION		1		
	48	SBST3012Z	SCREW	RADI+IC	4		
	49	SBST3006Z	TH TAP SCREW	TUNER PWB+CHASS	1		
	50	SBST3006Z	TH TAP SCREW	MAIN PWB+CHASSI	1		
	51	SBST3006Z	TH TAP SCREW	RADI+CHASSIS	1		
	52	VYH3987-001SC	IC HOLDER		1		
	54	VMA3239-001	SHIELD		1		
	55	VMA4720-001	AARRIER		1		
	56	----------	C.D MECHA ASS'Y		1		
	57	VJD5410-005	PICK COVER		1		
	58	SDSF2006M	SCREW	CD MECHA+P.COVE	4		
	59	FMYH4003-001	INSULATOR		2		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	60	FMYH4003-002	INSULATOR		2		
	61	VYH8089-001SC	CD MECHA HOLDER		1		
	62	VYH8089-002SC	CD MECHA HOLDER		1		
	63	SBSF3010Z	SCREW	CD CASE+M.HOLDE	4		
	64	VMA4692-002SC	SHIELD	FOR CD MECHA WI	1		
	65	VJD1216-003	CD CASE		1		
	66	E406709-001	LASER CAUTION		1		
	67	VYH4769-002	GEAR		1		
	68	VKW5276-001	CD DOOR SPRING		1		
	69	VYH8152-001	LOCK LEVER		1		
	70	VXP5354-003	CD EJECT KNOB		1		
	71	VJT2385-006	CD DOOR		1		
	72	VJT3392-002	CD LENS		1		
	73	VJT4245-002	CD ORNAMENT		1		
	74	VYH3726-002SS	CLAMPER		1		
	75	VYH7313-003	MAGNET		1		
	76	VYH7677-201	YOKE		1		
	77	SDSF2606Z	SCREW	FOR CLAMPER	1		
	78	SBSF3010Z	SCREW	CD PWB+CD CASE	4		
	79	VMA4721-002	SHIELD		1		
	80	PU59915-105	SPACER	FOR SHIELD	1		
	81	SSST3008Z	SCREW	CHASSIS+F.PANEL	2		
	82	VJD2488-005	SIDE PANEL(L)		1		
	83	VJD2489-005	SIDE PANEL(R)		1		
	85	VJG1477-014	REAR PANEL	PS ｼﾎﾞ ﾁ ｳｺｸ	1		
	86	SBSF3010Z	SCREW		7		
	88	SSST3008Z	SCREW	FOR R.P+CHASSIS	2		
	90	LV30152-010A	NAME PLATE		1		
	91	VWF1015-07TTA	FFC CABLE	CD - PICK	1		
	92	VWF1205-08TTB	FFC	KEY - MICOM	1		
	93	VWF1209-14TTB	TAF CARD	SLC - MICOM	1		
	94	VWF1210-20TTB	CARD WIRE	MICOM - TUNER	1		
		VWF1210-20TTB	CARD WIRE	SLC - MAIN	1		
	95	VWF1207-16TTB	CARD WIRE	MAIN - CD	1		
	96	VWF1211-06TTBX	CARD WIRE	MICOM - CD	1		
	97	VWF1204-12TTB	CARD WIRE	MICOM - RDS TUN	1		
	99	VND4003-077	FUSE LABEL		1		
	100	VND4003-050	FUSE LABEL		1		
⚠	F 901	QMF51E2-R50SBS	FUSE		1		
⚠	F 903	QMF51E2-6R3J1	FUSE		1		
⚠	T 901	QQT0199-002	POWER TRANS		1		

■Cassette Mechanism Parts : Blocik No. M2

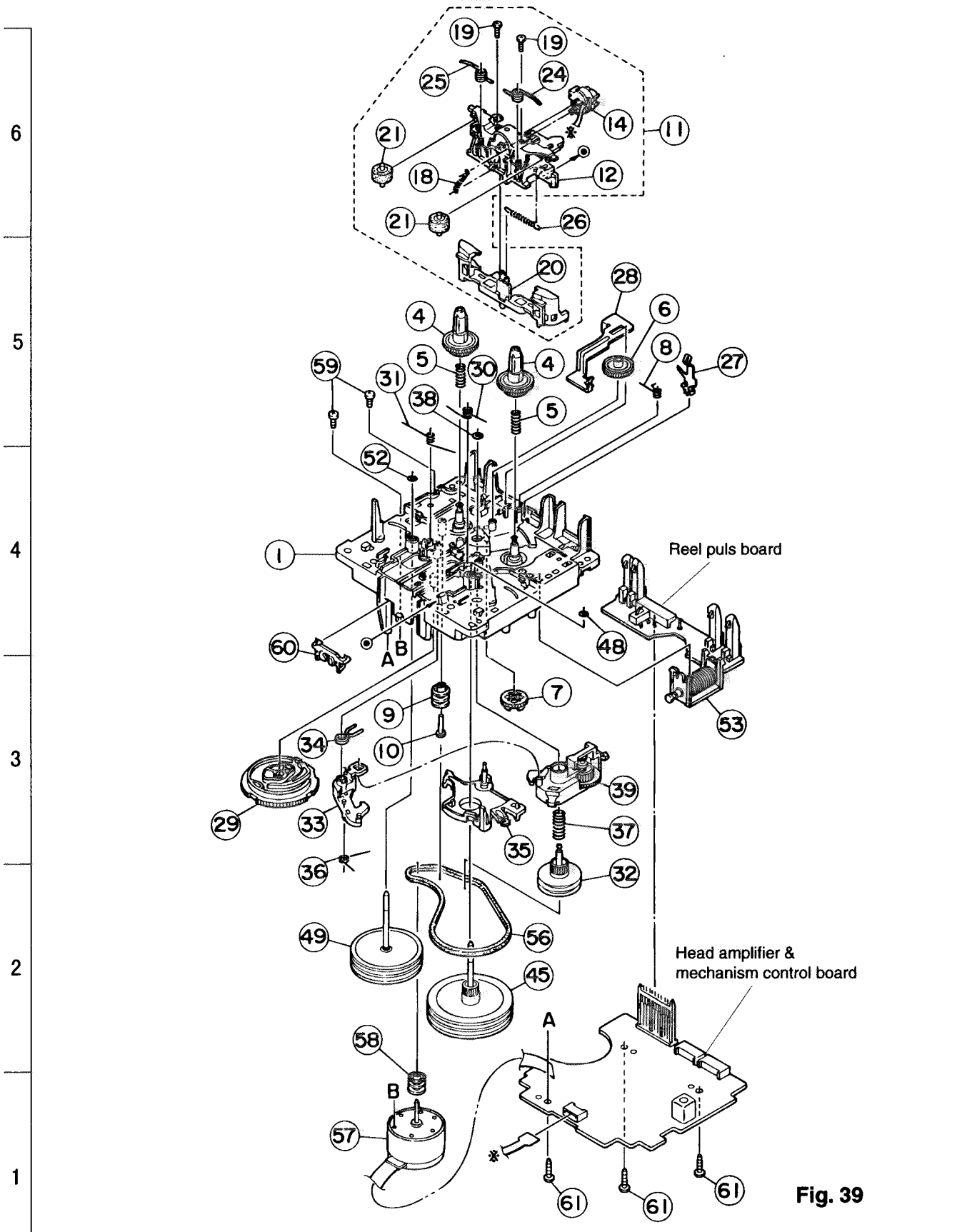


Fig. 39

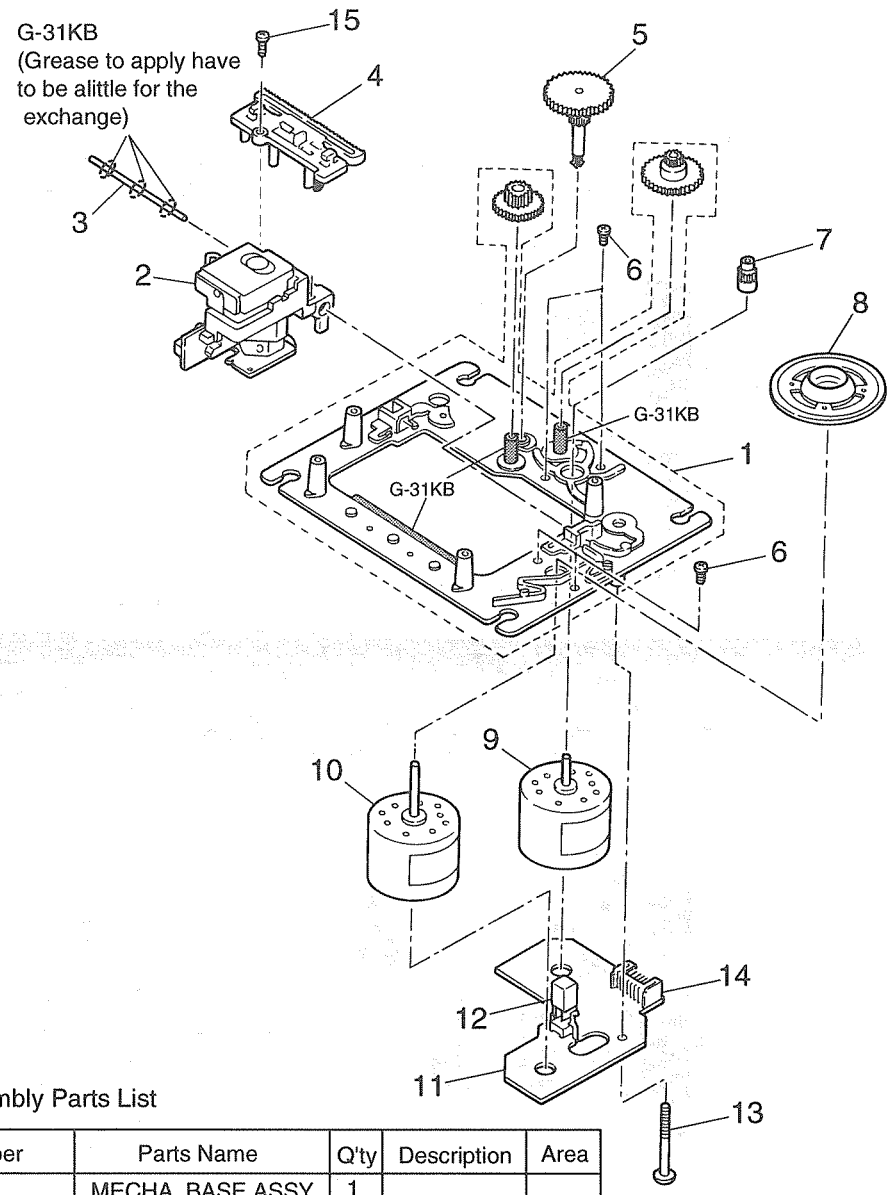
BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VKS1165-00E	CHASSIS B. ASSY		1		
	4	VKS2274-002	REEL GEAR		2		
	5	VKW5286-002	B.T. SPRING		2		
	6	VKS5559-001	PLAY IDLE GEAR		1		
	7	VKS5597-00AKP	BLIND ASS'Y		1		
	8	VKW5296-001	EARTH SPRING		1		
	9	VKR4749-002	IDLE PULLEY		1		
	10	VKH5786-002	SHAFT		1		
	11	VKS2275-00C	HEAD MOUNT ASSY		1		
	12	VKS1167-001KP	HEAD MOUNT BASE		1		
	14	VGH0425-544	R/P&E HEAD	VKS2275-00B	1		
	18	VKW5302-001	HEAD SPRING		1		
	19	VKZ4730-001	SPECIAL SCREW		2		
	20	VKS2277-005	DIRECTION LEVER		1		
	21	VKP4233-00A	PINCH ROL. ASSY		2		
	24	VKW5299-001	PIN.ROL.SP.(R)		1		
	25	VKW5300-001	PIN.ROL.SP.(L)		1		
	26	VKW5285-001	RETURN SPRING		1		
	27	VKY3149-001	CASSETTE SP.		1		
	28	VKM3906-002	PLAY SW.LEVER		1		
	29	VKS1166-003KP	CONTROL CAM		1		
	30	VKW5279-001	HEAD BASE SP(R)		1		
	31	VKW5280-001	HEAD BASE SP(L)		1		
	32	VKS5603-00C	MAIN PULLEY ASY		1		
	33	VKS3785-001MM	FR ARM		1		
	34	VKW5284-002	SWING SPRING		1		
	35	VKS2278-001	TRIGGER ARM		1		
	36	VKW5301-001	FR SPRING		1		
	37	VKW5266-001	ELEVATOR SPRING		1		
	38	WDL214025	WASHER		1		
	39	VKS3786-00EKP	CLUTCH ASSY		1		
	45	VKF3205-00B	F.WHEEL ASSY(R)		1		
	48	WDL183425	SLIT WASHER		1		
	49	VKF3207-00B	F.WHEEL ASSY(L)		1		
	52	WDL173525-6	SLIT WASHER		1		
	53	VKZ3174-00AKP	DC SOLENOID		1		
	56	VKB3000-181	CAPSTAN BELT		1		
	57	MSI-5U2LWA	D.C.MOTOR ASS'Y		1		
	58	VKR4761-001	MOTOR PULLEY		1		
	59	SPSP2604Z	SCREW		2		
	60	VKS5577-001	FPC HOLDER		1		
	61	SBSF2608Z	T.SCREW	FOR P.W.B.	3		
	62	LV40450-001A	CONNECT SP.		1		

CD Mechanism Ass'y and Parts List

■ Grease Point

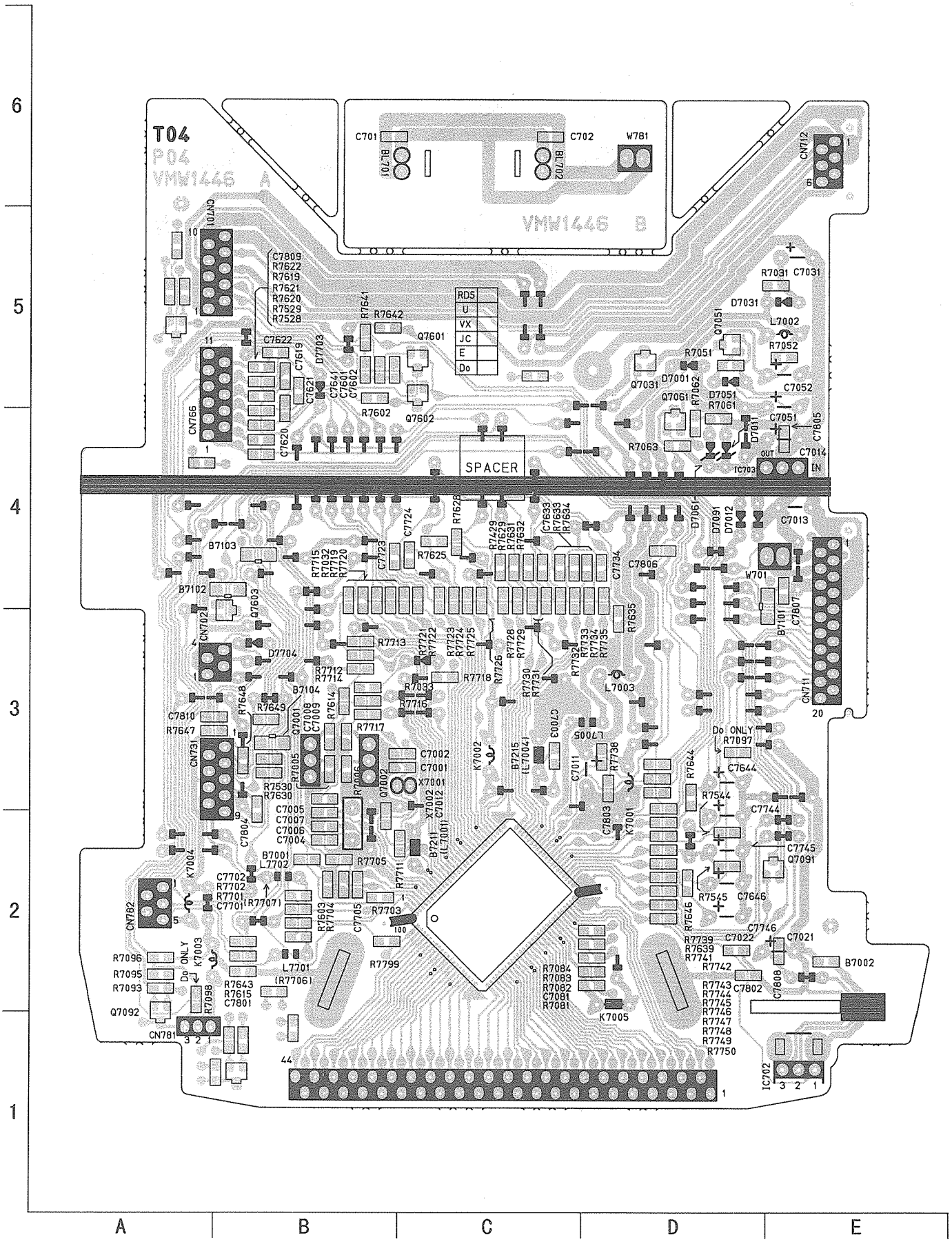
Block No. M 3 M M



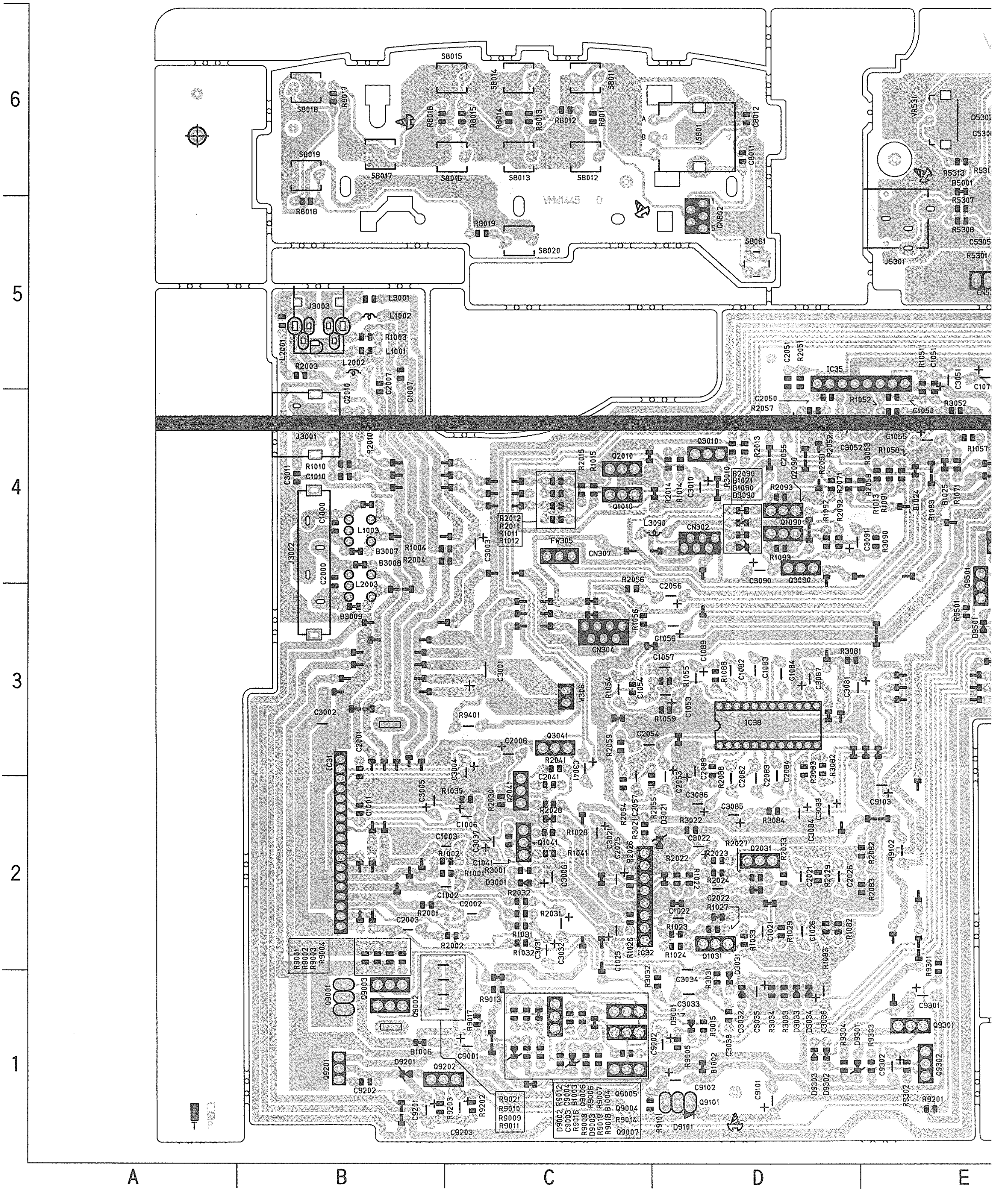
■CD Mechanism Assembly Parts List

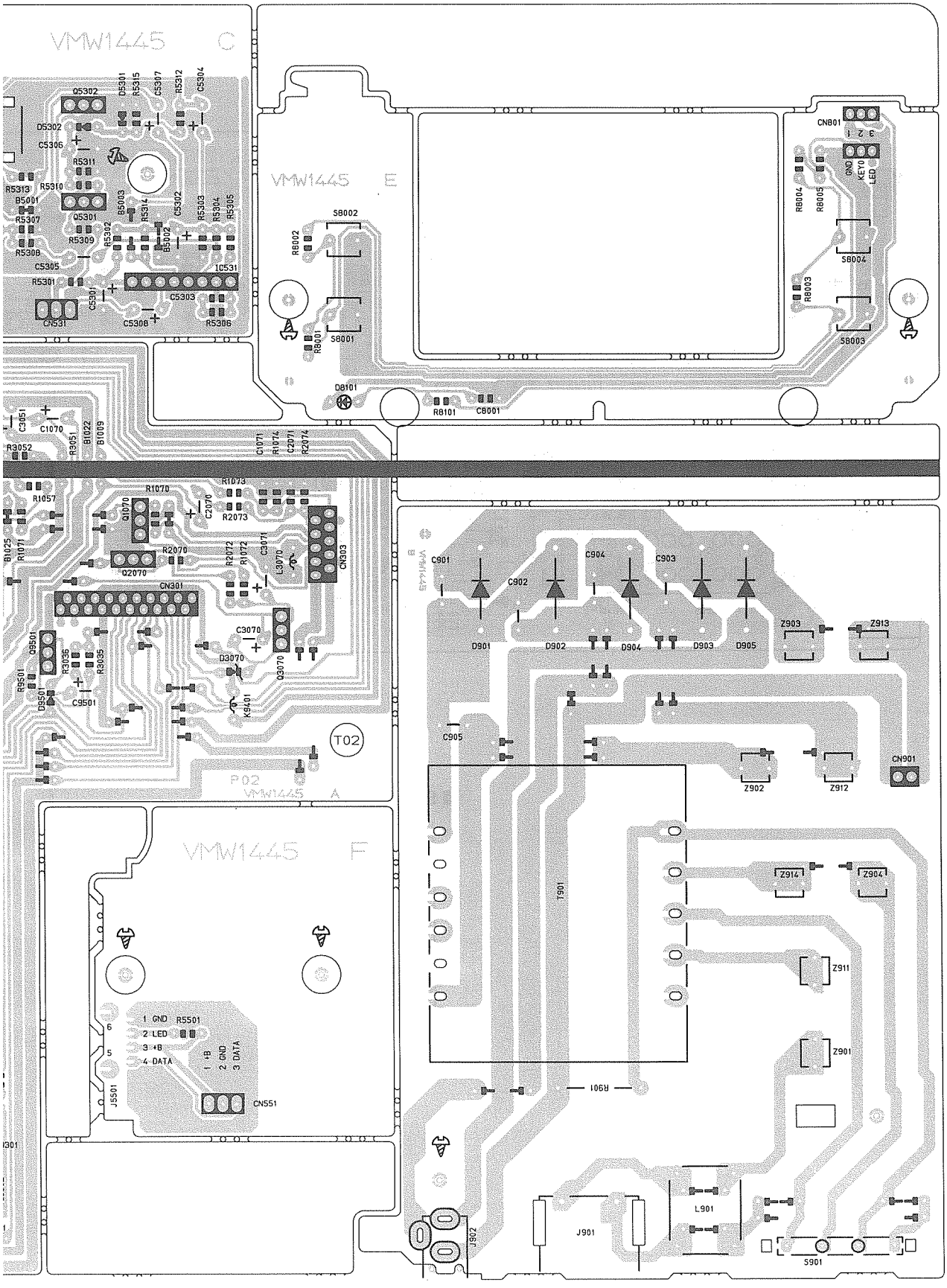
⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	1	EPB-002PK	MECHA. BASE ASSY	1		
	2	OPTIMA-150S	OPTICAL PICK UP	1		
	3	E407782-001	CD SHAFT	1		
	4	E307746-001	CD RACK	1		
	5	EPB-003A	MECHA GEAR	1		
	6	SDSP2003N	SCREW	4		
	7	E406750-001	PINION GEAR	1		
	8	EPB309173A	TURN TABLE	1		
	9	E406784-001	FEED MOTOR	1		
	10	E406783-001	SPINDLE MOTOR	1		
	11	EMW10190-001(S)	P.C.BOARD	1		
	12	ESB1100-005	LEAF SWITCH	1		
	13	E75832-001	SCREW	1		
	14	EMV5109-006B	CONN. TERMINAL	1		
	15	SDSF2006Z	SCREW	1	6PIN	

■ LCD & CPU P. C. Board



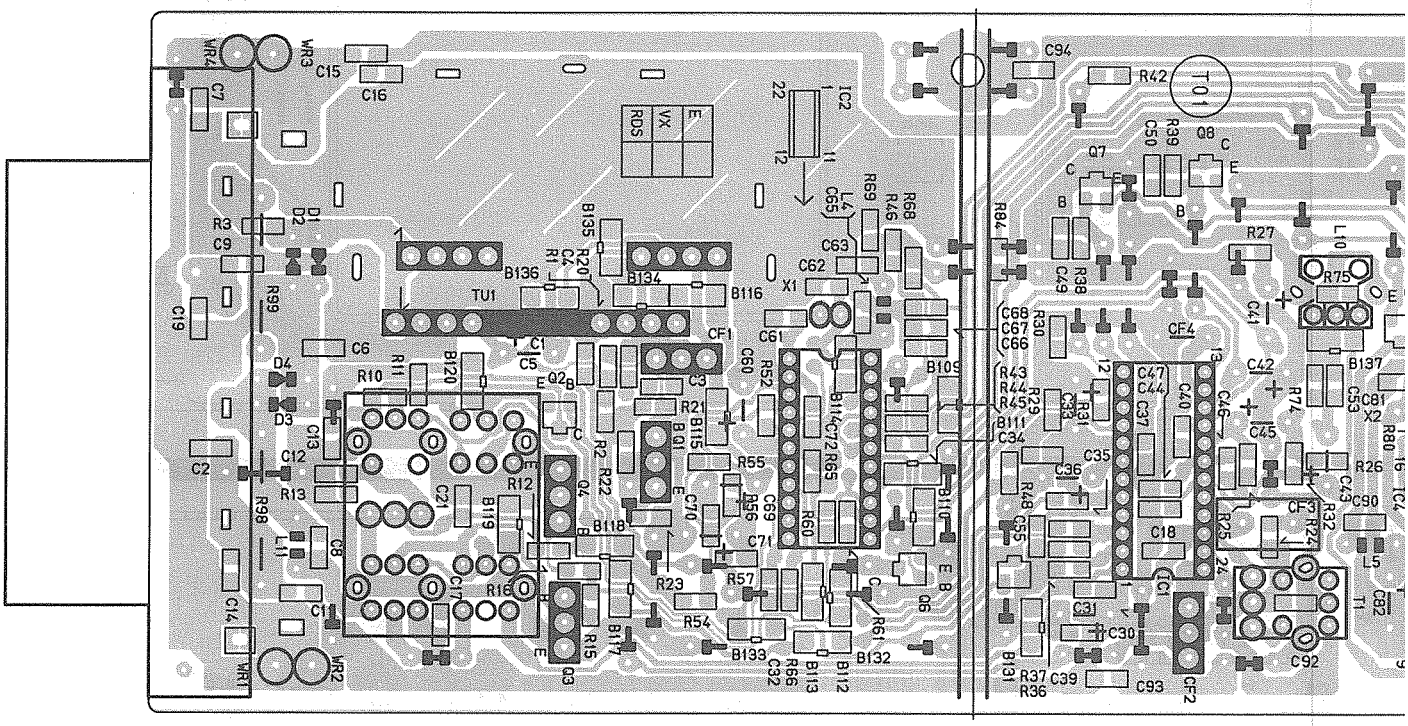
Main P. C. Board



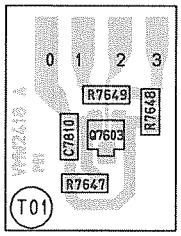

VMW1445 C
VMW1445 E
VMW1445 F
VMW1445 A
P02
T02
Q5302
D5302
C5306
R5311
R5313
R5310
B5001
R5307
R5308
Q5301
R5309
R5302
B5003
R5314
C5302
B5002
R5303
R5304
R5305
C5305
R5301
C5301
IC531
C5303
CN531
C5308
R5306
S8002
R8002
S8001
R8001
D8101
R8101
C8001
CN801
3 2 1
GND
KEY0
LED
R8004
R8005
S8004
R8003
S8003
C3051
C1070
R3052
R3051
B1022
B1009
C1071
R1074
C2071
R2074
R1070
R1073
R1057
Q1070
C2070
R2073
R2070
Q2070
R2072
R1072
C3071
L3070
CN303
CN301
B1025
R1071
C3070
D3070
Q3070
Q9501
R3035
R9501
D9501
C9501
K9401
C901
C902
C904
C903
D901
D902
D904
D903
D905
Z903
Z913
C905
Z902
Z912
CN901
Z914
Z904
T901
Z911
Z901
R901
L901
J901
J902
S901
1 GND R5501
2 LED
3 +B
4 DATA
1 +B
2 GND
3 DATA
CN551
J5501

E | F | G | H | I

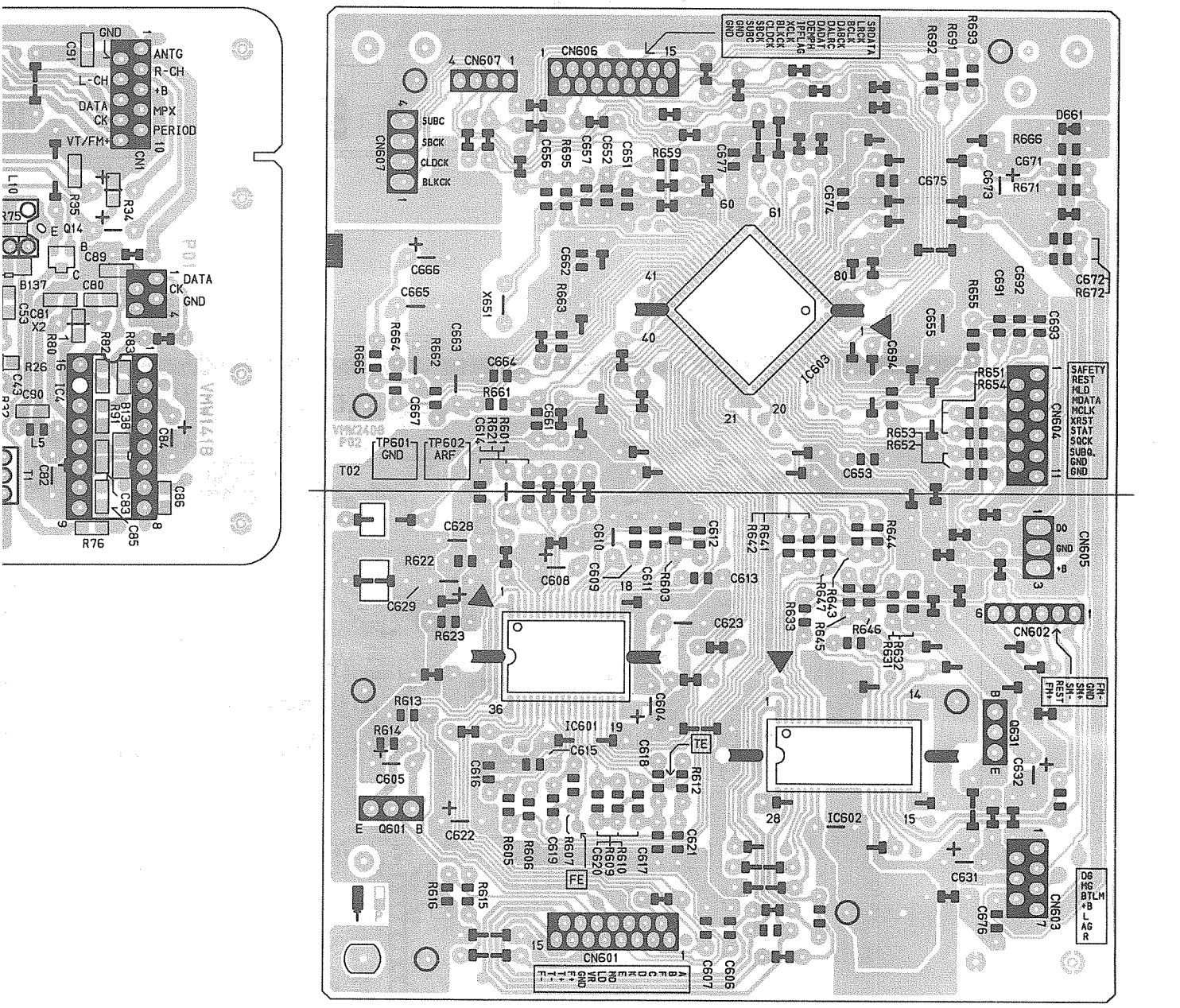
■ Tuner P. C. Board



■ Sub P. C. Board



■ CD Amp. P. C. Board



BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
⚠	C 901	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
⚠	C 902	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
⚠	C 903	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
⚠	C 904	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
	CN301	QGB1214J1-20S	CONNECTOR		
	CN302	QGB1214J1-06S	CONNECTOR		
	CN303	VMC0163-010	CONNECTOR		
	CN304	QGF1205C1-07	CONNECTOR		
	CN801	QGB2016J1-03	CONNECTOR		
	CN802	VMC0163-R05	CONNECTOR		
	CN901	QGA2501C4-02	CONNECTOR		
	C1000	QCXB1CM-332Y	C CAPACITOR	3300PF 20% 16V	
	C1001	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C1002	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
	C1003	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
	C1006	EET2508-106ZE	E CAPACITOR		
	C1007	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1010	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1021	QFN41HJ-823	M CAPACITOR	.082MF 5% 50V	
	C1022	QFN41HJ-823	M CAPACITOR	.082MF 5% 50V	
	C1025	QTE1A03-226Z	E CAPACITOR		
	C1026	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
	C1041	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C1050	QCS11HJ-300	C CAPACITOR	30PF 5% 50V	
	C1051	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C1053	QTE1C03-106Z	E CAPACITOR		
	C1054	QFN31HJ-392Z	M CAPACITOR	3900PF 5% 50V	
	C1055	QETC1EM-475ZM	E CAPACITOR	4.7MF 20% 25V	
	C1056	EET2508-106ZE	E CAPACITOR		
	C1070	QETC1EM-475ZM	E CAPACITOR	4.7MF 20% 25V	
	C1082	QFLB1HJ-563	TF CAPACITOR	.056MF 5% 50V	
	C1083	QFLB1HJ-563	TF CAPACITOR	.056MF 5% 50V	
	C1084	QFN41HJ-472	M CAPACITOR	4700PF 5% 50V	
	C2000	QCXB1CM-332Y	C CAPACITOR	3300PF 20% 16V	
	C2001	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C2002	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
	C2003	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
	C2006	EET2508-106ZE	E CAPACITOR		
	C2007	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C2010	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C2021	QFN41HJ-823	M CAPACITOR	.082MF 5% 50V	
	C2022	QFN41HJ-823	M CAPACITOR	.082MF 5% 50V	
	C2025	QTE1A03-226Z	E CAPACITOR		
	C2026	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
	C2041	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C2050	QCS11HJ-300	C CAPACITOR	30PF 5% 50V	
	C2051	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C2053	QTE1C03-106Z	E CAPACITOR		
	C2054	QFN31HJ-392Z	M CAPACITOR	3900PF 5% 50V	
	C2055	QETC1EM-475ZM	E CAPACITOR	4.7MF 20% 25V	
	C2056	EET2508-106ZE	E CAPACITOR		
	C2070	QETC1EM-475ZM	E CAPACITOR	4.7MF 20% 25V	
	C2082	QFLB1HJ-563	TF CAPACITOR	.056MF 5% 50V	
	C2083	QFLB1HJ-563	TF CAPACITOR	.056MF 5% 50V	
	C2084	QFN41HJ-472	M CAPACITOR	4700PF 5% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C3001	QETM1EM-688	E CAPACITOR	6800MF 20% 25V	
	C3002	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
	C3003	QETC1CM-107ZN	E CAPACITOR	100MF 20% 16V	
	C3004	QETC1AM-337ZN	E CAPACITOR	330MF 20% 10V	
	C3005	QETC1AM-336ZN	E CAPACITOR	33MF 20% 10V	
	C3006	QETC1HM-225ZM	E CAPACITOR	2.2MF 20% 50V	
	C3010	QETC1HM-684ZN	E CAPACITOR	.68MF 20% 50V	
	C3011	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C3021	QETC1CM-476ZM	E CAPACITOR	47MF 20% 16V	
	C3022	QETC1AM-476ZM	E CAPACITOR	47MF 20% 10V	
	C3031	QETC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C3032	QETC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C3033	QFLB1HJ-563	TF CAPACITOR	.056MF 5% 50V	
	C3034	QFLB1HJ-563	TF CAPACITOR	.056MF 5% 50V	
	C3035	QETC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C3036	QETC1CM-106ZM	E CAPACITOR	10MF 20% 16V	
	C3037	QETC1CM-106ZM	E CAPACITOR	10MF 20% 16V	
	C3038	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C3039	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C3041	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C3051	QETC1CM-476ZM	E CAPACITOR	47MF 20% 16V	
	C3052	QETC1CM-476ZM	E CAPACITOR	47MF 20% 16V	
	C3070	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C3081	QETC1CM-227Z	E CAPACITOR	220MF 20% 16V	
	C3083	QETC1HM-474ZN	E CAPACITOR	.47MF 20% 50V	
	C3084	QETC1HM-474ZN	E CAPACITOR	.47MF 20% 50V	
	C3085	QETC1HM-474ZN	E CAPACITOR	.47MF 20% 50V	
	C3086	QETC1EM-106ZN	E CAPACITOR	10MF 20% 25V	
	C3087	QETC1HM-224ZM	E CAPACITOR	.22MF 20% 50V	
	C8011	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C8012	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C9001	QETC1CM-226ZM	E CAPACITOR	22MF 20% 16V	
	C9003	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C9004	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C9201	QETC1CM-476ZM	E CAPACITOR	47MF 20% 16V	
	C9202	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C9203	QETC1CM-106ZM	E CAPACITOR	10MF 20% 16V	
	C9301	QETC1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C9302	QETC1HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	C9501	QETC1AM-477ZM	E CAPACITOR	470MF 20% 10V	
⚠	D 901	6A10E2	SI DIODE		
⚠	D 902	6A10E2	SI DIODE		
⚠	D 903	6A10E2	SI DIODE		
⚠	D 904	6A10E2	SI DIODE		
⚠	D 905	6A10E2	SI DIODE		
	D3021	MTZ4.3JB	ZENER DIODE		
	D3031	1SS133	SI DIODE		
	D3032	1SS133	SI DIODE		
	D3033	1SS133	SI DIODE		
	D3034	1SS133	SI DIODE		
	D3070	MTZ6.8JB	DIODE		
	D8101	L-341D-T12	LED	STANDBY LED RED	
	D9001	1SS133	SI DIODE		
	D9002	MTZ8.2JC	ZENER DIODE		
	D9003	MTZ10JAT-77	ZENER DIODE		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D9201	MTZ4.3JB	ZENER DIODE		
	D9301	MTZ3.9JB	Z DIODE		
	D9302	1SS133	SI DIODE		
	D9303	1SS133	SI DIODE		
	D9501	1SS133	SI DIODE		
	IC 31	LA4705NA	IC		
	IC 32	BA15218N	IC		
	IC 35	BA15218N	IC		
	IC 38	BH3852S	IC		
⚠	J 901	QNC0001-001	AC SOCKET 8TYPE		
⚠	J 902	QMA431B-V01	FILM CAPACITOR		
	JS801	QSW0547-001	ROTARY ENCODER		
	J3001	QNN0090-001	PIN JACK	KUNMING HSP-242	
	J3002	QNB0035-001	SPK TERMINAL	KUNMIG HSP-324V	
	J3003	QNS0072-001	HEADPHONE JACK		
	K9401	VQZ0107-002	INDUCTOR		
	L 901	VQZ0113-001	INDUCTOR		
	L1001	VQP0018-470	INDUCTOR		
	L1002	VQZ0048-007	INDUCTOR		
	L1003	VQZ0104-003	INDUCTOR		
	L2001	VQP0018-470	INDUCTOR		
	L2002	VQZ0048-007	INDUCTOR		
	L2003	VQZ0104-003	INDUCTOR		
	L3001	VQP0018-470	INDUCTOR		
	L3070	VQZ0048-007	INDUCTOR		
	Q1010	2SD2144S(VW)	TRANSISTOR		
	Q1031	KTC3199(GL)-T	TRANSISTOR		
	Q1041	2SC2001(L,K)	TRANSISTOR		
	Q1070	KTC3199(GL)-T	TRANSISTOR		
	Q2010	2SD2144S(VW)	TRANSISTOR		
	Q2031	KTC3199(GL)-T	TRANSISTOR		
	Q2041	2SC2001(L,K)	TRANSISTOR		
	Q2070	KTC3199(GL)-T	TRANSISTOR		
	Q3010	KTC3199(GL)-T	TRANSISTOR		
	Q3041	KRA101M-T	TRANSISTOR		
	Q3070	KRA101M-T	TRANSISTOR		
⚠	Q9001	2SB1565(E,F)	TRANSISTOR		
	Q9002	KTC3199(GL)-T	TRANSISTOR		
	Q9003	KTA1267(YG)-T	TRANSISTOR		
	Q9004	KRC114M-T	TRANSISTOR		
	Q9005	DTA144TS-T	TRANSISTOR		
	Q9006	KTC3199(GL)-T	TRANSISTOR		
	Q9007	KTC3199(GL)-T	TRANSISTOR		
⚠	Q9201	2SA1359/OY/	TRANSISTOR		
	Q9202	KTC3199(GL)-T	TRANSISTOR		
	Q9301	KTA1267(YG)-T	TRANSISTOR		
	Q9302	KTC3199(GL)-T	TRANSISTOR		
	Q9501	2SC2001(L,K)	TRANSISTOR		
	R1001	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
	R1002	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
	R1003	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R1004	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R1010	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R1011	QRD161J-224	C RESISTOR	220K 5% 1/4W	
	R1012	QRD161J-623	C RESISTOR	62K 5% 1/4W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R1013	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R1014	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R1015	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R1022	QRD161J-224	C RESISTOR	220K 5% 1/4W	
	R1023	QRD161J-202	C RESISTOR	2.0K 5% 1/4W	
	R1024	QRD161J-202	C RESISTOR	2.0K 5% 1/4W	
	R1026	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R1027	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R1028	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R1029	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R1031	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R1032	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R1033	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R1041	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R1051	QRD161J-154	C RESISTOR	150K 5% 1/4W	
	R1052	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R1054	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R1055	QRD167J-332	C RESISTOR	3.3K 5% 1/4W	
	R1056	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R1057	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R1070	QRD161J-183	C RESISTOR	18K 5% 1/4W	
	R1071	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R1072	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R1073	QRD161J-821	C RESISTOR	820 5% 1/4W	
	R1074	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R1082	QRD161J-302	C RESISTOR	3.0K 5% 1/4W	
	R1083	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
	R1091	QRD161J-333	C RESISTOR	33K 5% 1/4W	
	R1093	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R2001	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
	R2002	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
	R2003	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R2004	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R2010	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R2011	QRD161J-224	C RESISTOR	220K 5% 1/4W	
	R2012	QRD161J-623	C RESISTOR	62K 5% 1/4W	
	R2013	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R2014	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R2015	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R2022	QRD161J-224	C RESISTOR	220K 5% 1/4W	
	R2023	QRD161J-202	C RESISTOR	2.0K 5% 1/4W	
	R2024	QRD161J-202	C RESISTOR	2.0K 5% 1/4W	
	R2026	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R2027	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R2028	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R2029	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R2031	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R2032	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R2033	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R2041	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R2051	QRD161J-154	C RESISTOR	150K 5% 1/4W	
	R2052	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R2054	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R2055	QRD167J-332	C RESISTOR	3.3K 5% 1/4W	
	R2056	QRD161J-103	C RESISTOR	10K 5% 1/4W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R2057	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R2070	QRD161J-183	C RESISTOR	18K 5% 1/4W	
	R2071	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R2072	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R2073	QRD161J-821	C RESISTOR	820 5% 1/4W	
	R2074	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R2082	QRD161J-302	C RESISTOR	3.0K 5% 1/4W	
	R2083	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
	R2091	QRD161J-333	C RESISTOR	33K 5% 1/4W	
	R2093	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R3001	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R3010	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R3021	QRD161J-101	C RESISTOR	100 5% 1/4W	
	R3022	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
	R3031	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R3032	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R3033	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R3034	QRD161J-154	C RESISTOR	150K 5% 1/4W	
	R3035	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R3036	QRD161J-513	C RESISTOR	51K 5% 1/4W	
	R3051	QRD161J-101	C RESISTOR	100 5% 1/4W	
	R3052	QRD161J-473	C RESISTOR	47K 5% 1/4W	
	R3053	QRD161J-473	C RESISTOR	47K 5% 1/4W	
	R3081	QRD161J-101	C RESISTOR	100 5% 1/4W	
	R3082	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R3083	QRD161J-154	C RESISTOR	150K 5% 1/4W	
	R3084	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R8001	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R8002	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R8003	QRD161J-122	C RESISTOR	1.2K 5% 1/4W	
	R8005	QRD161J-103	C RESISTOR	VERSION	
	R8011	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R8012	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R8013	QRD161J-122	C RESISTOR	1.2K 5% 1/4W	
	R8014	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
	R8015	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R8016	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R8017	QRD161J-392	C RESISTOR	3.9K 5% 1/4W	
	R8018	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
	R8019	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R8101	QRD161J-271	C RESISTOR	270 5% 1/4W	
	R9001	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
	R9002	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
	R9003	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
	R9004	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R9005	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
	R9006	QRD161J-242	C RESISTOR	2.4K 5% 1/4W	
	R9007	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R9008	QRD167J-682	C RESISTOR	6.8K 5% 1/4W	
	R9012	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R9013	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R9014	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R9016	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R9017	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R9018	QRD161J-103	C RESISTOR	10K 5% 1/4W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R9019	QRD161J-391	C RESISTOR	390 5% 1/4W	
	R9021	QRZ0077-680	F RESISTOR	68 1/0W	
	R9102	QRZ0077-5R6X	F.RESISTOR	5.6 1/0W	
	R9201	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R9202	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R9203	QRD161J-221	C RESISTOR	220 5% 1/4W	
	R9301	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R9302	QRD161J-333	C RESISTOR	33K 5% 1/4W	
	R9303	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R9304	QRD161J-390	C RESISTOR	39 5% 1/4W	
	R9401	QRZ0077-4R7X	F RESISTOR	4.7 1/0W	
	R9501	QRD161J-221	C RESISTOR	220 5% 1/4W	
	S8001	QSQ4H11-V12Z	TACT SWITCH	POWER	
	S8002	QSQ4H11-V12Z	TACT SWITCH	AUX	
	S8003	QSQ4H11-V12Z	TACT SWITCH	VOLUME+	
	S8004	QSQ4H11-V12Z	TACT SWITCH	VOLUME-	
	S8011	QSQ4H11-V12Z	TACT SWITCH	TUNER	
	S8012	QSQ4H11-V12Z	TACT SWITCH	UP	
	S8013	QSQ4H11-V12Z	TACT SWITCH	STOP	
	S8014	QSQ4H11-V12Z	TACT SWITCH	TAPE	
	S8015	QSQ4H11-V12Z	TACT SWITCH	CD	
	S8016	QSQ4H11-V12Z	TACT SWITCH	DOWN	
	S8017	QSQ4H11-V12Z	TACT SWITCH	CLOCK	
	S8018	QSQ4H11-V12Z	TACT SWITCH	REC	
	S8019	QSQ4H11-V12Z	TACT SWITCH	SBASS	
	S8020	QSQ4H11-V12Z	TACT SWITCH	SNOOSE	
	S8061	QSW0122-001	PUSH SWITCH	CD DOOR	
	WR 1	SC-J-2-10-EH-02	SC-EH WIRE	MAIN - AC/DC	
	Z 901	EMG7331-003Z	FUSE CLIP		
	Z 903	EMG7331-003Z	FUSE CLIP		
	Z 911	EMG7331-003Z	FUSE CLIP		
	Z 913	EMG7331-003Z	FUSE CLIP		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	BL701	QLL0045-001	P.LAMP		
	BL702	QLL0045-001	P.LAMP		
	CN701	VMC0163-R10	CONNECTOR	TO TUNER PWB	
	CN702	QGF1205F1-04	CONNECTOR	TO TUNER PWB RD	
	CN711	QGB1214K1-20S	CONNECTOR	TO AMP PWB CONT	
	CN712	QGB1214K1-06S	CONNECTOR	TO AMP PWB SIG.	
	CN731	QGF1205C1-09	CONNECTOR	TO MECHA PWB	
	CN766	VMC0163-R11	CONNECTOR	TO CD PWB	
	CN781	QGB2016K1-03	CONNECTOR	TO FRONT SW PWB	
	CN782	QGF1205C1-05	CONNECTOR	TO TOP SW PWB	
	C7001	NCS21HJ-180AY	C CAPACITOR	CLOCK	
	C7002	NCS21HJ-180AY	C CAPACITOR	CLOCK	
	C7003	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7004	NCS21HJ-360AY	C CAPACITOR	MAIN CLOCK SHIF	
	C7005	NCS21HJ-390AY	C CAPACITOR	MAIN CLOCK SHIF	
	C7006	NCS21HJ-200AY	C CAPACITOR	MAIN CLOCK	
	C7007	NCS21HJ-220AY	C CAPACITOR	MAIN CLOCK	
	C7008	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7009	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7011	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C7012	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7013	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C7014	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C7021	QER41CM-476M	E CAPACITOR	47MF 20% 16V	
	C7022	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7031	QETBOJM-228N	E CAPACITOR	BACKUP CAPACITO	
	C7051	QER61HM-684ZM	E CAPACITOR	.68MF 20% 50V	
	C7052	QER41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C7081	NCB21CK-104X	C CAPACITOR	AM LCD NOISE	
	C7601	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7602	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7619	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
	C7620	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
	C7621	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
	C7622	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
	C7633	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7641	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7644	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C7646	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C7701	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7702	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7705	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
	C7723	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7724	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7734	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7744	QER41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C7745	QER61HM-335ZM	E CAPACITOR	3.3MF 20% 50V	
	C7746	QER41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C7802	NCB21HK-103AY	C CAPACITOR	MICOM NOISE	
	C7803	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7804	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7809	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7810	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	D1701	QLD0042-001	LCD	44PIN	
	D7001	1SS133	SI DIODE	US5V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
⚠	D7011	MTZ8.2JB	DIODE	SHORT HOGO	
⚠	D7012	1SS133	SI DIODE	SHORT HOGO	
	D7031	1SS133	SI DIODE	BUCKUP	
	D7032	1SS133	SI DIODE	CLOCK	
	D7051	1SS133	SI DIODE	RESET	
	D7061	MTZ5.1JC	ZENER DIODE	BUCKUP CONT.	
	D7091	1SS133	SI DIODE	US5V	
	D7703	1SS133	SI DIODE	SUBQ RDS ONLY	
	D7704	1SS133	SI DIODE	SUBQ RDS ONLY	
	IC701	UPD78064GF-108	IC	SYSTEM MICON	
	IC702	PIC-21043SP	REMOKON SENSOR		
⚠	IC703	UPC78L06J	IC	US6V REG	
	K7001	VQZ0107-002	INDUCTOR	ICVSS	
	K7002	VQZ0107-002	INDUCTOR	AVSS	
	K7003	VQZ0107-002	INDUCTOR		
	K7004	VQZ0107-002	INDUCTOR		
	L7002	VQP0033-100Z	INDUCTOR	US5V	
	L7003	VQP0033-100Z	INDUCTOR	AVDD	
	L7005	VQP0018-4R7	INDUCTOR	AVREF	
	L7701	VQP0018-4R7	INDUCTOR		
	L7702	VQP0018-4R7	INDUCTOR		
	Q7001	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
	Q7002	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
	Q7031	2SA1037AKT146	CHIP TRANSISTOR	SW5V	
	Q7051	DTC114TKT146	TRANSISTOR	RESET SW	
	Q7061	2SC2412K/R/-X	TRANSISTOR	BACKUP CONT	
	Q7091	2SC2412K/R/-X	TRANSISTOR	POUT DRIVER	
	Q7092	2SA1037AKT146	CHIP TRANSISTOR	STANDBY LED CON	
	Q7601	DTC144TKA-X	TRANSISTOR		
	Q7602	DTC144TKA-X	TRANSISTOR		
	Q7603	2SC2412K/R/-X	TRANSISTOR		
	R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R7031	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7051	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7052	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7061	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7062	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7063	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7081	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7082	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7083	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7084	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R7093	NRSA02J-153NY	MG RESISTOR	STANDBY LED CON	
	R7095	NRSA02J-333NY	MG RESISTOR	STANDBY LED CON	
	R7096	NRSA02J-102NY	MG RESISTOR	STANDBY LED CON	
	R7429	NRSA02J-913NY	MG RESISTOR	91K 5% 1/10W	
	R7528	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R7529	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7530	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7544	NRSA02J-114NYM	MG RESISTOR	110K 5% 1/10W	
	R7545	NRSA02J-114NYM	MG RESISTOR	110K 5% 1/10W	
	R7602	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R7603	NRSA02J-103NY	MG RESISTOR	RDS ONLY	
	R7615	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7619	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R7620	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7621	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R7622	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7625	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
	R7628	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
	R7629	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7630	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
	R7631	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7632	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7633	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7634	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7635	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7639	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7641	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7642	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7643	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7644	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7646	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7647	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7648	NRSA02J-394NY	MG RESISTOR	390K 5% 1/10W	
	R7649	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
	R7701	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7702	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7704	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7705	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7711	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7712	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7713	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7714	NRSA02J-102NY	MG RESISTOR	RDSONLY	
	R7715	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7717	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7718	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7720	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7723	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7724	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7725	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7728	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7729	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7730	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7734	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7735	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7738	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7739	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R7741	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7742	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7743	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7744	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
	R7745	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7746	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7747	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7748	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R7749	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R7750	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7799	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	WR 2	VWS302-103K3K	FLAT WIRE	LAMP WIRE	
	X7001	VCX5000-002	CRYSTAL	CLOCK	
	X7002	QAX0410-001Z	CERA LOCK	MAIN CLOCK	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 2	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 5	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 6	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 7	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C 8	NCS21HJ-150AY	C CAPACITOR	15PF 5% 50V	
	C 9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 11	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 12	NDC21HJ-150X	C CAPACITOR		
	C 13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 15	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 16	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 18	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 19	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C 21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 30	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 31	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	
	C 32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 33	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 34	NCS21HJ-150AY	C CAPACITOR	15PF 5% 50V	
	C 35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 36	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 41	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 42	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 43	QEK61HM-335ZN	E CAPACITOR	3.3MF 20% 50V	
	C 44	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 45	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 47	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 49	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
	C 50	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
	C 51	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 52	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 53	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
	C 55	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 56	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 57	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 60	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 61	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 62	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 66	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C 67	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C 68	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 69	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V	
	C 71	QEK61HM-335ZN	E CAPACITOR	3.3MF 20% 50V	
	C 72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 80	NCS21HJ-820AY	C CAPACITOR	82PF 5% 50V	
	C 81	NCS21HJ-470AY	C CAPACITOR	47PF 5% 50V	
	C 82	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 83	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 84	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 85	NCB21HK-331AY	C CAPACITOR	330PF 10% 50V	
	C 86	NCB21HK-561	C CAPACITOR	560PF 10% 50V	
	C 89	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 90	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 91	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 92	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 93	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 94	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	CF 1	VCF2M3B-104	C FILTER	FM IF	
	CF 2	VCF2S3B-102	C FILTER	FM IF	
	CF 3	VCF1Z2Z-115Z	C FILTER		
	CF 4	QAX0409-001	CERA LOCK		
	CN 1	VMC0163-R10	CONNECTOR		
	CN 2	QGF1205F1-04	CONNECTOR	FOR RDS	
	D 1	1SS133	SI DIODE		
	D 2	1SS133	SI DIODE		
	D 3	1SS133	SI DIODE		
	D 4	1SS133	SI DIODE		
	IC 1	TA2057N	IC		
	IC 2	LC72136N	IC		
	IC 4	BU1922	IC		
	J 1	EMB41YV-302K	ANT TERMINAL	AM/FM ANT	
	L 1	VQZ0098-102	COIL BLOCK	MW/LW RF/OSC	
	L 4	VQP0018-221	INDUCTOR		
	L 5	EQL4007-101	INDUCTOR		
	L 10	VQZ0069-002	TRAP COIL	114KHZ TRAP	
	L 11	VQP0018-2R7	INDUCTOR		
	Q 1	2SC266B(O)	TRANSISTOR		
	Q 2	DTA114YKA-X	TRANSISTOR		
	Q 3	KTC3199(GL)-T	TRANSISTOR		
	Q 4	KTC3199(GL)-T	TRANSISTOR		
	Q 6	DTA114YKA-X	TRANSISTOR		
	Q 7	2SA1037K(R)-X	TRANSISTOR		
	Q 8	2SA1037K(R)-X	TRANSISTOR		
	Q 14	2SA1037K(R)-X	TRANSISTOR		
	R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
	R 3	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W	
	R 10	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 13	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 15	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 16	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 23	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 24	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 27	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 34	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 46	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 48	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 54	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 55	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
	R 56	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 60	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 61	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 65	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 68	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 74	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 75	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 76	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 80	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 82	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 83	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 84	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	T 1	VQT7A21-113	IFT		
	TU 1	QAU0034-001	FRONT END	FM TU	
	X 1	QAX0402-001	CRYSTAL		
	X 2	VCX5057-001	CRYSTAL		

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 604	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 605	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C 606	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C 607	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C 608	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 609	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 610	QFLC1HJ-273ZM	M CAPACITOR	.027MF 5% 50V	
	C 611	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
	C 612	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 613	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 614	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 615	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 616	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 617	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 618	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
	C 619	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V	
	C 620	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 621	QCBB1HK-821Y	C CAPACITOR	820PF 10% 50V	
	C 622	QET41AM-476	E CAPACITOR	47MF 20% 10V	
	C 623	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 628	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 629	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C 631	QET41AM-477	E CAPACITOR	470MF 20% 10V	
	C 632	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 651	QCS11HJ-120	C CAPACITOR	12PF 5% 50V	
	C 652	QCS11HJ-150	C CAPACITOR	15PF 5% 50V	
	C 653	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 655	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 661	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 662	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 663	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 664	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 665	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
	C 671	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
	C 672	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
	C 673	QTE1C05-227	E CAPACITOR		
	C 674	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 675	QCGB1HK-102	C CAPACITOR	AG-DG	
	C 676	QCGB1HK-102	C CAPACITOR	AG-DG	
	C 691	QCBB1HK-151Y	C CAPACITOR	DENGEN NOISE	
	C 692	QCBB1HK-151Y	C CAPACITOR	DENGEN NOISE	
	C 693	QCBB1HK-151Y	C CAPACITOR	DENGEN NOISE	
	C 698	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	CN	AT-Y-6-06-PH-06	AT-PH CONN	TO MOTOR	
	CN601	QGF1008F1-15	21-41 CONNECTOR	TO RF	
	CN603	QGF1205F1-07	CONNECTOR	TO AUDIO	
	CN604	VMC0163-R11	CONNECTOR	TO MICON	
	CN605	VMC0041-003	CONNECTOR	TO DIGITAL OUT	
	D 661	1SS133	SI DIODE		
	IC601	AN8806SB	IC	RF AMP	
⚠	IC602	BA6897FP	IC	DRIVER	
	IC603	MN35510	IC	1CHIP PROCESSER	
	Q 601	2SA952(L,K)	TRANSISTOR		
	Q 631	2SA952(L,K)	TRANSISTOR		
	R 601	QRD161J-123	C RESISTOR	12K 5% 1/4W	

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 603	QRD161J-125	C RESISTOR	1.2M 5% 1/4W	
	R 605	QRD167J-134	C RESISTOR	130K 5% 1/4W	
	R 606	QRD161J-913	C RESISTOR	91K 5% 1/4W	
	R 607	QRD161J-273	C RESISTOR	27K 5% 1/4W	
	R 609	QRD161J-114	C RESISTOR	110K 5% 1/4W	
	R 610	QRD161J-154	C RESISTOR	150K 5% 1/4W	
	R 612	QRD161J-103	C RESISTOR	10K 5% 1/4W	
	R 613	QRD167J-121	C RESISTOR	120 5% 1/4W	
	R 614	QRD161J-100	C RESISTOR	10 5% 1/4W	
	R 615	QRD161J-120	C RESISTOR	12 5% 1/4W	
	R 616	QRD161J-910Y	C RESISTOR	91 5% 1/4W	
	R 621	QRD161J-330	C RESISTOR	33 5% 1/4W	
	R 622	QRD161J-330	C RESISTOR	33 5% 1/4W	
	R 623	QRD161J-330	C RESISTOR	33 5% 1/4W	
	R 631	QRD161J-331	C RESISTOR	330 5% 1/4W	
	R 632	QRD161J-101	C RESISTOR	100 5% 1/4W	
	R 633	QRD161J-273	C RESISTOR	27K 5% 1/4W	
	R 641	QRD161J-563	C RESISTOR	56K 5% 1/4W	
	R 642	QRD161J-123	C RESISTOR	12K 5% 1/4W	
	R 643	QRD161J-822	C RESISTOR	8.2K 5% 1/4W	
	R 644	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R 645	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R 646	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
	R 647	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
	R 651	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 652	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 653	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 654	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 655	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R 659	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R 661	QRD161J-104	C RESISTOR	100K 5% 1/4W	
	R 662	QRD161J-155	C RESISTOR	1.5M 5% 1/4W	
	R 663	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R 664	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R 666	QRD161J-220	C RESISTOR	22 5% 1/4W	
	R 671	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 672	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	X 651	VCX5016-934V	CRYSTAL	16.9344MHZ	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN 1	EMV7159-010	10P PLUG ASSY		
	D 1	1SR139-100	SI DIODE		
	IC 1	SG-105F3-BB,C	PHOTO SENSER		
	P 1	VMZ0015-002	POST PIN		
	SW 1	MXS00220MVL0	CASSETTE SWITCH	R.REC	
	SW 2	MXS00220MVL0	CASSETTE SWITCH	TAPE	
	SW 4	MXS00220MVL0	CASSETTE SWITCH	70U	
	SW 5	MXS00220MVL0	CASSETTE SWITCH	F.REC	
	SW 6	QSW0507-001	SWITCH		

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 101	NCS21HJ-821AY	C CAPACITOR	820PF 5% 50V	
	C 102	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 103	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 104	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
	C 105	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
	C 106	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 107	NCS21HJ-561AY	C CAPACITOR	560PF 5% 50V	
	C 108	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 109	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 110	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
	C 111	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C 112	NCB21EK-683AY	C CAPACITOR	.068MF 10% 25V	
	C 113	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
	C 121	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
	C 201	NCS21HJ-821AY	C CAPACITOR	820PF 5% 50V	
	C 202	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 203	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 204	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
	C 205	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
	C 206	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 207	NCS21HJ-561AY	C CAPACITOR	560PF 5% 50V	
	C 208	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 209	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 210	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
	C 211	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C 212	NCB21EK-683AY	C CAPACITOR	.068MF 10% 25V	
	C 213	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
	C 221	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
	C 301	QEKF1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 302	NCB21HK-393AY	C CAPACITOR	.039MF 10% 50V	
	C 303	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 304	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 305	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 306	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 307	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 308	NCB21HK-562AY	C CAPACITOR	5600PF 10% 50V	
	C 309	NCB21HK-562AY	C CAPACITOR	5600PF 10% 50V	
	C 310	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 311	NCB21HK-682AY	C CAPACITOR	6800PF 10% 50V	
	C 313	QEKF1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 314	QCZ0205-155	ML CAPACITOR	1.5MF	
	C 315	QCZ0205-155	ML CAPACITOR	1.5MF	
	C 316	QFG32AJ-103ZN	PP CAPACITOR	.010MF 5% 100V	
	C 318	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 319	QFG32AJ-821ZN	TF CAPACITOR	820PF 5% 100V	
	C 321	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 322	QFG32AJ-152ZN	M CAPACITOR	1500PF 5% 100V	
	C 331	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 351	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 371	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 374	QEKF1AM-107ZN	E CAPACITOR	MOTOR +B	
	C 375	QEKF1AM-107ZN	E CAPACITOR	100MF 20% 10V	
	C 376	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	CN 31	VMC0163-R06	CONNECTOR	PRI/HEAD	
	CN 32	QGB2011M1-10	PWB CONECTOR	PRI/MECHA	

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN 33	QGF1205F1-09	CONNECTOR	PRI/MICON	
	CN 34	VMC0163-R10	CONNECTOR	PRI/AMP	
	C3040	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	D 301	MA152WA-TX	DIODE		
	D 309	MA704A	S.K.DIODE		
	D 375	MA3051/M/-X	ZENER DIODE		
	FW 31	VWSC04-06A13K	EF FLAT		
	IC 31	BA3126N	IC	HEAD SW	
	IC 32	AN7317	IC	PB&REC	
	IC 33	BU4094BCF-X	IC		
	L 301	QQR0620-001	OSC COIL(BIAS)		
	L 303	VQP0033-100Z	INDUCTOR		
	Q 101	DTC114TKT146	TRANSISTOR		
	Q 102	DTC114TKT146	TRANSISTOR	REC EQ CONT.	
	Q 201	DTC114TKT146	TRANSISTOR		
	Q 202	DTC114TKT146	TRANSISTOR	REC EQ CONT.	
	Q 301	DTA144EKA-X	TRANSISTOR	REC EQ CONT.	
	Q 302	2SC2001(L,K)	TRANSISTOR		
	Q 303	2SC2001(L,K)	TRANSISTOR		
	Q 304	2SC2001(L,K)	TRANSISTOR		
	Q 305	2SC2001(L,K)	TRANSISTOR		
	Q 306	2SC1623(6)	TRANSISTOR		
	Q 307	2SC1623(6)	TRANSISTOR		
	Q 308	2SC1623(6)	TRANSISTOR		
	Q 309	2SC1623(6)	TRANSISTOR		
	Q 321	DTC144EKA-X	TRANSISTOR		
	Q 323	2SC1623(6)	TRANSISTOR		
	Q 371	2SA952(L,K)	TRANSISTOR	MOTER+B	
	Q 372	DTC124EK	TRANSISTOR		
	Q 375	2SB562(C)	TRANSISTOR	SOLENOID DRIVE	
	Q 376	2SC1623(6)	TRANSISTOR		
	R 101	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
	R 102	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
	R 103	NRSA02J-242	MG RESISTOR	2.4K 5% 1/10W	
	R 104	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 105	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 106	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 107	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 108	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R 109	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 110	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 111	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 112	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 113	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 114	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 116	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 121	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 201	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
	R 202	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
	R 203	NRSA02J-242	MG RESISTOR	2.4K 5% 1/10W	
	R 204	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 205	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 206	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 207	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 208	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 209	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 210	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 211	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 212	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 213	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 214	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 216	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 221	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 301	NRS181J-221NY	MG RESISTOR	220 5% 1/8W	
	R 303	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R 304	NRS181J-101NY	MG RESISTOR	100 5% 1/8W	
	R 305	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 306	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 310	NRS181J-560NY	MG RESISTOR	56 5% 1/8W	
	R 311	NRS181J-560NY	MG RESISTOR	56 5% 1/8W	
	R 313	NRSA02J-3R3NYM	MG RESISTOR	3.3 5% 1/10W	
	R 314	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 315	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 316	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 317	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 319	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 322	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 327	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
	R 332	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 333	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 335	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 336	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 337	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 338	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 339	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 340	NRS181J-391NY	MG RESISTOR	390 5% 1/8W	
	R 341	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 342	NRSA02J-203NY	MG RESISTOR	20K 5% 1/10W	
	R 343	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
	R 351	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R 352	NRSA02J-912NY	MG RESISTOR	9.1K 5% 1/10W	
	R 371	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 372	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 375	NRSA02J-151NY	MG RESISTOR	150 5% 1/10W	
	R 376	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	VR 31	QVPA603-503A	SEMI V RESISTOR	BIAS ADJ	
	VR 32	QVPA603-503A	SEMI V RESISTOR	BIAS ADJ	
	VR 37	QVPA603-103M	SEMI V RESISTOR	TAPE SPEED ADJ	

Packing

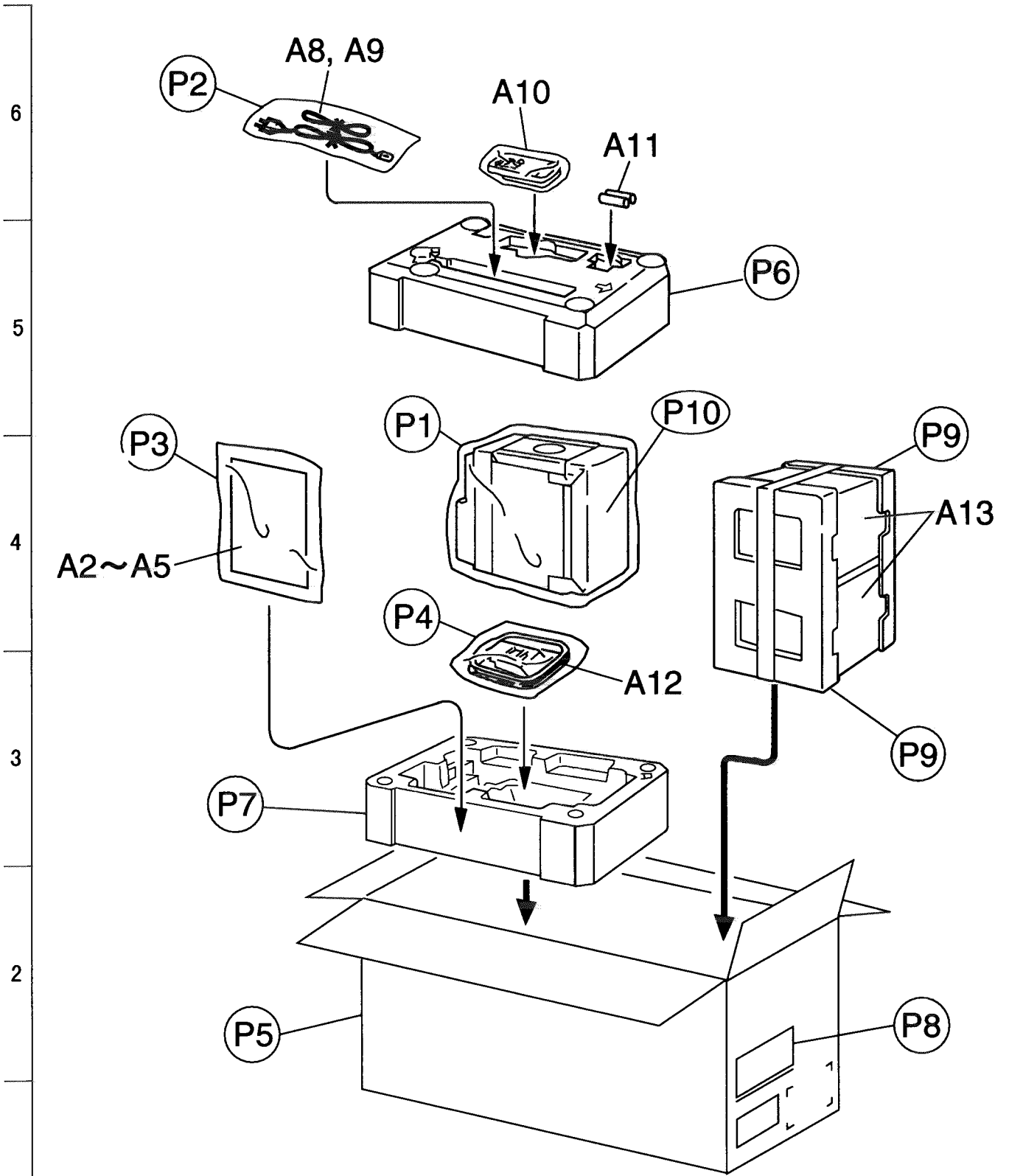


Fig. 61

■ Packing Parts List

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPE3026-006	POLY BAG	FOR SET	1		
	P 2	QPA01202505	POLY BAG	FOR P.CORD	1	E,EN	
		QPGA015-03503	POLY BAG	FOR P.CORD	1	B	
	P 3	VPE3026-004	POLY BAG	INSTRUCTIONS	1		
	P 4	QPA01702503P	POLY BAG	FOR AM ANT	1		
	P 5	VPC9336-001	CARTON		1		
	P 6	VPH1709-001	CUSHION(UPPER)		1		
	P 7	VPH1709-002	CUSHION(BOTTOM)		1		
	P 8	----------	CARTON LABEL		1		
	P 9	LV20069-001A	SP CUSHION		2		
	P 10	VPK3001-012	SHEET		1		

■ Accessories Parts List

BLOCK NO. M5MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 2	LVT0027-005A	INSTRUCTIONS		1	E	
		LVT0027-006A	INSTRUCTIONS		1	EN	
		LVT0027-004A	INSTRUCTIONS		1	B	
	A 3	BT-54003-1	WARRANTY CARD		1	B	
	A 4	BT-20066A	SERVICE NIT LIS		1	B	
	A 5	E43486-340B	SAFETY INST		1	B	
	A 8	QMP5520-183BS	POWER CORD		1	B	
		QMP39F0-183	POWER CORD		1	E,EN	
	A 9	EWP503-001	ANT.WIRE	FM ANT	1		
	A 10	VGR0063-301	REMOCON UNIT		1		
	A 11	R6SPTT/2STS	BATTERY	FOR REMOCON	1		
	A 12	EQB4001-015	AM LOOP ANT	AM ANT	1		
	A 13	UXT300K-SPBOX	SPEAKER		2		

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